

**B.L.D.E.A's V.P. Dr. P.G. HALAKATTI COLLEGE OF ENGINEERING  
AND TECHNOLOGY VIJYAPUR 586103**

**QUESTION PAPERS DEC.2024/JAN.2025**

**1<sup>st</sup> Year All Branches I&II Semester**

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# CBCS SCHEME

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18CHE12/22

## First/Second Semester B.E. Degree Examination, Dec.2024/Jan.2025 Engineering Chemistry

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. What is single electrode potential? Derive Nernst equation for single electrode potential. (06 Marks)
- b. An electrochemical cell consists of an iron electrode, dipped in 0.1 M  $\text{FeSO}_4$  and silver electrode dipped in 0.5 M  $\text{AgNO}_3$  solution write the cell representation and cell reaction. Calculate the emf of the cell at 298 K. Given that the standard reduction potentials of iron and silver electrodes are  $-0.44\text{ V}$  and  $+0.80\text{ V}$  respectively. (07 Marks)
- c. Explain the construction and working of Ni–MH battery. Mention its applications. (07 Marks)

OR

- 2 a. Explain the construction and working of calomel electrode. Mention its applications. (07 Marks)
- b. Explain the construction and working of Li – ion battery. Mention their applications. (07 Marks)
- c. Define the terms :  
(i) Free energy (ii) Entropy and (iii) Cell Potential. (06 Marks)

### Module-2

- 3 a. Define Corrosion. Explain electrochemical theory of corrosion taking iron as corroding metal. (07 Marks)
- b. What is galvanization? Describe the galvanization process for iron. (07 Marks)
- c. Explain the process of electroplating of chromium. (06 Marks)

OR

- 4 a. What is cathodic protection? Explain (i) Sacrificial anodic (ii) Impressed current methods. (07 Marks)
- b. What is electrolessplating? Explain the electrolessplating of copper and mention the applications. (07 Marks)
- c. Write note on : (i) Polarization (ii) Decomposition potential (06 Marks)

### Module-3

- 5 a. Explain the determination of calorific value of the solid fuel using bomb calorimeter. (07 Marks)
- b. What are fuel cells? How does a fuel cell differ from a conventional cell? (07 Marks)
- c. Explain the preparation of solar grade silicon by union carbide process. (06 Marks)

OR

- 6 a. Calculate the gross and net calorific value of a sample of coal, 0.5 g of which when burnt in a bomb calorimeter raised the temperature of water from 293 K to 296.4 K. The mass water is 1000 g and water equivalent of calorimeter is 350 g. The sp. heat of water is 4.187 KJ/kg/K. Latent heat of steam is 587 cal/g. The coal sample contains 93% carbon, 5% hydrogen and 2% ash. (06 Marks)
- b. Write a note on :  
(i) Power alcohol and (ii) Biodiesel (08 Marks)
- c. Explain construction and working of a photovoltaic cell. (06 Marks)

**Module-4**

- 7 a. Write a note on sources, ill effects of primary air pollutants CO and SO<sub>2</sub>. Mention the methods of control. (07 Marks)
- b. Calculate COD of effluent sample when 25 cm<sup>3</sup> of effluent requires 8.9 cm<sup>3</sup> of 0.001 M K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> for complete oxidation. (06 Marks)
- c. Define BOD. Explain the activated sludge treatment of sewage water. (07 Marks)

OR

- 8 a. What is biomedical waste? Explain the disposal methods of biomedical waste. (07 Marks)
- b. What is desalination? Explain the desalination of water by reverse osmosis. (07 Marks)
- c. Write a note on sources, ill effects of lead and mercury as pollutants. (06 Marks)

**Module-5**

- 9 a. Explain theory and instrumentation of calorimetry. (07 Marks)
- b. Write the synthesis of nanomaterials by precipitation method. (07 Marks)
- c. Write note on fullerenes. Mention its applications. (06 Marks)

OR

- 10 a. Explain the synthesis of nano-material by sol-gel technique. (07 Marks)
- b. Explain theory, instrumentation and any one application of conductometry. (07 Marks)
- c. Discuss the theory, instrumentation and applications of atomic absorption spectroscopy. (06 Marks)

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First/Second Semester B.E. Degree Examination, Dec.2024/Jan.2025

## C Programming for Problem Solving

Time: 3 hrs.

Max. Marks:100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Explain different generations of computer. (10 Marks)
- b. With a neat block diagram of computer explain its components. (10 Marks)

OR

- 2 a. Write the basic structure of C program. Briefly explain each section. (08 Marks)
- b. Classify the operators based on the number of operands. Explain with one example for each. (08 Marks)
- c. State whether the following are valid identifiers or not: integer, char, \_for, while. (04 Marks)

### Module-2

- 3 a. With examples how would describe the formatted input and formatted output statements in C language. (08 Marks)
- b. How would you explain if – else statement in C language? Give the relevant example. (06 Marks)
- c. Write a program in C to display the grade based on the marks as follows:

Marks	Grades
0 to 39	F
40 to 49	E
50 to 59	D
60 to 69	C
70 to 79	B
80 to 89	A
90 to 100	O

(06 Marks)

OR

- 4 a. How would you explain switch statement with an example? (08 Marks)
- b. How the while loop differs from do-while loop? (06 Marks)
- c. Write a program to check whether a given integer is palindrome or not? (06 Marks)

### Module-3

- 5 a. Define an array. Explain with suitable example how do you declare and initialize 1D array. (10 Marks)
- b. Write a C program to search an element using linear and binary techniques. (10 Marks)

OR

- 6 a. Define a string. Explain any 4 string library functions with syntax and example. (10 Marks)
- b. Write a C program to copy a string (combination of digits and alphabets) to another string (only alphabets). (10 Marks)

**Module-4**

- 7 a. How would you illustrate the elements of user defined functions with examples? (10 Marks)  
 b. Write a program in C to find the factorial of a given integer using functions. (05 Marks)  
 c. Explain how call by value differs from call by reference while invoking a function. (05 Marks)

**OR**

- 8 a. How would you explain the categories of user defined functions? (10 Marks)  
 b. Write a program in C to compute the Fibonacci series up to n terms using recursion. (06 Marks)  
 c. List the storage class specifiers. Explain any one of them. (04 Marks)

**Module-5**

- 9 a. Define structure. Explain how structure members are accessed using dot (.) operator. (04 Marks)  
 b. Write a C program to accept RollNo, Name, and Marks of students and display the sum and average of the marks using structure. (10 Marks)  
 c. What is pointer? With example explain how pointer variables are declared and initialized. (06 Marks)

**OR**

- 10 a. What is preprocessor directive? Explain #define preprocessor directive. (04 Marks)  
 b. Write a C program to compute the sum, mean and standard deviation of elements stored in an array of n real numbers using pointers. (10 Marks)  
 c. With example explain structure within structure. (06 Marks)

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18PHY12/22

## First/Second Semester B.E. Degree Examination, Dec.2024/Jan.2025 Engineering Physics

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. Define forced oscillation. Obtain the amplitude and phase of the forced oscillation by deriving the equation of motion. (10 Marks)
- b. Define the following terms :  
i) Subsonic wave  
ii) Supersonic wave  
iii) Mach number  
iv) Control volume  
v) Mach angle  
vi) Ultrasonic wave. (06 Marks)
- c. A 20 gram oscillator with natural frequency 10 rad/sec is vibrating in damping medium. If the damping co-efficient is 0.17, how does the oscillations decay. (04 Marks)

OR

- 2 a. Define damped oscillations. Derive the differential equation of motion for damped oscillation and obtain the value of ' $\alpha$ ' in its general solution. (08 Marks)
- b. Define force constant and mention its physical significance. Derive equivalent force constant for two springs in series and parallel combination. (08 Marks)
- c. The distance between the two pressure sensors in a shock tube is 150 mm. The time taken by a shock wave to travel this distance is 0.3 m/s. Find the Mach number of the shock wave. (Given velocity of sound = 340 m/s). (04 Marks)

### Module-2

- 3 a. Define cantilever and derive an expression for the depression caused in a circular cross sectional cantilever due to the suspended load. (10 Marks)
- b. Explain the nature of elastic material with the help of stress-strain graph. (06 Marks)
- c. Calculate the force required to produce an extension of 1 mm in steel wire of length 2 m and diameter 1 mm whose Yong's modulus  $Y = 8 \times 10^{10} \text{ N/m}^2$ . (04 Marks)

OR

- 4 a. Define Young's modulus(Y) and Bulk modulus(K). Derive the Relation between Y, K and  $\sigma$ . (10 Marks)
- b. Explain in detail any three factors affecting the elasticity of the material. (06 Marks)
- c. Calculate the angular twist of a wire of length 0.3m and radius 0.2 mm when a torque of  $5 \times 10^{-4} \text{ N-m}$  is applied. Given the rigidity modulus of the material as  $8 \times 10^{10} \text{ N/m}^2$ . (04 Marks)

### Module-3

- 5 a. Derive an expression for numerical aperture and give condition for Ray Propagation in optical fiber. (08 Marks)
- b. List out the Maxwell's equations in static and time varying field. (08 Marks)
- c. A coil of mean radius 8 cm having 100 turns carries current of 10A, calculate the magnetic field at the centre of the coil. Given  $\mu_0 = 4 \pi \times 10^{-7} \text{ H/m}$ . (04 Marks)

1 of 2

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- 6 a. Define current density. Derive equation of continuity. (08 Marks)  
 b. Define attenuation in optical fibers. Mention expression for attenuation coefficient. Discuss any three losses in optical fiber communication. (08 Marks)  
 c. Calculate V number for a fiber of core diameter 40  $\mu\text{m}$  and with refractive indices of 1.55 and 1.50 respectively for core and cladding. The wavelength of propagating wave is 1400 nm. Assume that the fiber is in air. (04 Marks)

**Module-4**

- 7 a. State and explain Heisenberg uncertainty principle. Show that the electron emitted during  $\beta$ -decay does not pre exist inside the nucleus using uncertainty principle. (07 Marks)  
 b. Mention the three different vibrational modes of  $\text{CO}_2$  molecule. With a neat energy level diagram explain the construction and working of  $\text{CO}_2$  Laser. (09 Marks)  
 c. The ratio of population of two energy levels out of which one corresponds to metastable state is  $1.059 \times 10^{-30}$ . Find the wavelength of light emitted at 330K. Given :  
 $K = 1.38 \times 10^{-23} \text{ J/K}$ ,  $c = 3 \times 10^8 \text{ m/s}$ ,  $h = 6.63 \times 10^{-34} \text{ J-S}$ . (04 Marks)

OR

- 8 a. Starting from Schrodinger's time independent wave equation obtain the expression for Eigen energy value and Eigen function for an electron present in one dimensional potential well of infinite depth. (07 Marks)  
 b. Explain Metastable state and population inversion. Derive an expression for energy density in terms of Einstein's coefficient. (09 Marks)  
 c. An electron is bound in one dimensional potential well of width 0.12 nm. Find the energy values in ground state and first excited state. Given :  
 $m_e = 9.1 \times 10^{-31} \text{ kg}$ ,  $h = 6.63 \times 10^{-34} \text{ J-S}$ . (04 Marks)

**Module-5**

- 9 a. Give assumption of quantum free electron theory. Derive an expression for Fermi energy at  $T = 0 \text{ K}$  in terms of electron concentration. (10 Marks)  
 b. What is hall effect? Arrive at the equation for Hall coefficient in terms of Hall voltage. (06 Marks)  
 c. An elemental solid dielectric material has polarizability  $7 \times 10^{-40} \text{ F-m}^2$ . Assuming the internal field to be Lorentz's field, calculate the dielectric constant for the material, if it has  $3 \times 10^{28} \text{ atoms/m}^3$ . Given  $\epsilon_0 = 8.85 \times 10^{-12} \text{ F/m}$ . (04 Marks)

OR

- 10 a. Define Fermi factor and Fermi energy. Explain the variation of Fermi Factor with temperature and energy of states. (10 Marks)  
 b. Define internal field in case of solid dielectrics. Derive Clausius – Mossotti equation. (06 Marks)  
 c. The charge carrier density of intrinsic germanium is  $2.372 \times 10^{19} \text{ m}^{-3}$ . Assuming electron and hole mobilities are  $3.38 \text{ m}^2/\text{V-s}$  and  $0.18 \text{ m}^2/\text{V-s}$  respectively. Calculate the resistivity of intrinsic germanium at  $27^\circ\text{C}$ . Given  $e = 1.6 \times 10^{-19} \text{ C}$ . (04 Marks)

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Question Paper Version : A

**First Semester B.Arch./B.Plan. Degree Examination, Dec.2024/Jan.2025**  
**Communicative English**

[Time: 2 hrs.]

[Max. Marks: 100]

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the hundred questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

**Choose the correct option from those given in each of the sentences below :**

1. The direction in which the formal communication flows is always \_\_\_\_\_.  
a) Upward                      b) Downward                      c) Horizontal                      d) All of these
2. Communication in an organization should ideally flow \_\_\_\_\_.  
a) From top to bottom                      b) From bottom to top  
c) Both ways                      d) None of these
3. Which one of the following cannot become a type of written communication \_\_\_\_?  
a) Pictures and visual aids                      b) Meetings and conferences  
c) Letters and suggestions                      d) Rules and Instructions
4. **Consider the following statements about communication :**  
The true statements are \_\_\_\_\_.  
a) It is a process of interactions with people and environment.  
b) Two or more individuals interact and influence the ideas, beliefs and attitudes of each others.  
c) They can exchange information through words , gestures, signs and symbols , expressions etc. Assume using the following codes :  
a) (a) & (b)                      b) (b) & (c)                      c) (a) & (c)                      d) (a) , (b) & (c)
5. Which of the following is/are not included in the tools of verbal communication?  
a) Listening                      b) Reading                      c) Writing                      d) Graphics

**Ver – A – 1 of 8**

6. Which of the following statements explain Interpersonal skills?
- The skills that a person uses to interact with other people.
  - People skills or communication skills
  - It explains how people relate to one another
  - All of these
7. Which of the following is not a way to improve interpersonal skills?
- Think positively and enter the mindset to work well with others and maintain good relationships.
  - Criticise others (or) yourself
  - Do not criticize others or yourself
  - Be patient.
8. Consider the following :
- |                              |                       |
|------------------------------|-----------------------|
| a) Common frame of reference | b) Mutual Interest    |
| c) Common Language           | d) Common Environment |
- Which of the above is/are features of effective communication?
- a, b, c & d
  - a, b & c
  - a & b
  - a & c
9. In communication, when people do not talk much question even less and do very little it is called \_\_\_\_.
- Assertive style
  - Passive style
  - Passive – aggressive style
  - Aggressive style
10. Which of the following are the key elements of communication?
- Communication is a two way process
  - There has to be a message
  - Commonness of understanding
  - All of these
11. Interpersonal communication is the process by which people exchange information , feelings and meaning through verbal and non – verbal messages.
- True
  - False
  - Possible
  - May be
12. Communicating the right way is not equally important in every walk of life , be it in personal , professional (or) social life.
- True
  - False
  - Possible
  - May be
13. The success of any business lies as much in networking and building sound professional relationship as it does in individual tact and business acumen – communication is a crucial decisive factor in business relations.
- True
  - False
  - Possible
  - May be
14. Maintaining professional etiquette in oral and written business communication is of utmost importance and must not be taken lightly.
- True
  - False
  - Possible
  - May be
15. Communication is not indeed, the very lubricant that makes machinery of human relations function smoothly.
- True
  - False
  - Possible
  - May be

**Choose the least word to describe the parts of speech from those given in each of the sentences below as underlined :**

16. I always go to the park on the weekends.  
a) Noun                      b) Adjective                      c) Verb                      d) Adverb
17. On cold winter days, I love to have a cup of hot chocolate.  
a) Adverb                      b) Adjective                      c) Verb                      d) Pronoun
18. Dinosaurs were very large, and they lived millions of years ago.  
a) Noun                      b) Verb                      c) Adjective                      d) Preposition
19. Those flowers are very beautiful. How much do they cost?  
a) Adjective                      b) Verb                      c) Conjunction                      d) Preposition
20. Stewart can speak Arabic very well because he lived in Egypt for a year.  
a) Verb                      b) Adjective                      c) Adverb                      d) Conjunction

**Choose the correct option from given in each of the sentences below :**

21. According to phonetic method, the unit of a word is  
a) Sentence                      b) Word                      c) Sound                      d) Letter
22. Total number of sounds in English language is :  
a) 12                      b) 8                      c) 20                      d) 44
23. Which of the following has / i / sound :  
a) Car                      b) Seat                      c) fit                      d) Books
24. The word "Doctor" has \_\_\_\_\_  
a) Two syllables with stress on one                      b) Two syllables with stress on both  
c) Two syllables with stress on first                      d) Two syllables with stress on second
25. Total number of vowel sounds in English language is :  
a) 12                      b) 8                      c) 44                      d) 20
26. Majority of staff members were not satisfied with the new director. (Which word is a compound noun?).  
a) Director                      b) Staff members                      c) New                      d) majority
27. When we were going up to hill, we have seen an old castle. (Which word is a noun?)  
a) will                      b) seen                      c) we                      d) old
28. Alice's father is a surgeon, he mostly does not have time to spend with his family. (Which word is a singular possessive noun?)  
a) Surgeon                      b) Time                      c) Family                      d) Alice's father
29. Australian government will bring together anti – terror laws – (Which word is a nominative noun?)  
a) Bring                      b) Australian                      c) Anti - terror                      d) Government

30. They discussed the problems, but could not find the solution. (Which word is across count noun?)  
 a) Could not                      b) find                      c) solution                      d) discussed

**Identify whether the underlined nouns are common , proper , collective or abstract :**

31. Honesty is the best policy.  
 a) Common                      b) Proper                      c) Collective                      d) Abstract
32. Solomon was famous for his wisdom.  
 a) Common                      b) Proper                      c) Collective                      d) Abstract
33. James is a bright student.  
 a) Common                      b) Proper                      c) Collective                      d) Abstract
34. My family lives in that house.  
 a) Common                      b) Proper                      c) Collective                      d) Abstract
35. A committee of five was appointed.  
 a) Common                      b) Proper                      c) Collective                      d) Abstract

**Silent and Non – silent letters. Select the missing silent letter from the options given. Check the spelling carefully :**

36. I – now London very well.  
 a) now                      b) know                      c) knew                      d) Known
37. Reading is easier than \_\_\_\_ riting.  
 a) Speaking                      b) riting                      c) writing                      d) listening
38. I always \_\_\_\_ rap up warm in winter.  
 a) grap                      b) snap                      c) group                      d) wrap
39. In summer ther are loads of small files called \_\_\_\_ nates everywhere.  
 a) gnates                      b) gnants                      c) snates                      d) wnats
40. People read \_\_\_\_ salms and sing hymns in church.  
 a) Phsalms                      b) Psalm                      c) SSLaws                      d) Pisalws

**Choose the most suitable answer that identifies the homophones in the sentences:**

41. India \_\_\_\_ the cricket match by 26 runs.  
 a) One                      b) Won                      c) Ones                      d) Owned
42. The fisherman \_\_\_\_ a bit fish.  
 a) Court                      b) Catch                      c) Caught                      d) Collect
43. The doctor took blood from my \_\_\_\_  
 a) Vein                      b) Vain                      c) Vaien                      d) Vyine



44. It was good to be back in \_\_\_\_  
 a) Sink                      b) Sync                      c) Synchronic                      d) Sinken
45. She \_\_\_\_ after standing for two hours in a queue.  
 a) Fainted                      b) Feinted                      c) Faint                      d) eint

**Select the correct articles for the following :**

46. Travelling by flight is really \_\_\_\_ experience to be remembered.  
 a) an                      b) a                      c) the                      d) no article
47. The sun rises in \_\_\_\_ east.  
 a) an                      b) a                      c) the                      d) no article
48. I go to \_\_\_\_ school every morning.  
 a) an                      b) a                      c) the                      d) no article
49. I carried \_\_\_\_ umbrella with me while going to school.  
 a) an                      b) a                      c) the                      d) no article
50. Ravi is \_\_\_\_ tallest boy among his friends.  
 a) an                      b) a                      c) the                      d) no article

**Speech sounds :**

51. Which of the following has / a: / sound.  
 a) pet                      b) am                      c) about                      d) aunt
52. Diphthong is the :  
 a) Pure vowel sound                      b) Pure constant sound  
 c) Vowel glides (or) mixed vowel sounds                      d) None of these

**Preposition : Choose the suitable preposition :**

53. \_\_\_\_ he was not well, he attended the meeting.  
 a) In spite of                      b) Although                      c) Despite of                      d) Even
54. It is not possible to complete the work \_\_\_\_ we work hard.  
 a) in case                      b) unless                      c) as long as                      d) so long as
55. He has not yet recovered \_\_\_\_ yesterday's shock.  
 a) till                      b) untill                      c) still                      d) from
56. I am planning to meet all my friends \_\_\_\_ these holidays.  
 a) on                      b) within                      c) during                      d) over
57. I completed my homework \_\_\_\_ my mother prepared the dinner.  
 a) for                      b) while                      c) during                      d) over
58. There are two students \_\_\_\_ the class.  
 a) next                      b) in                      c) on                      d) front

59. The oranges are not in the basket. They are \_\_\_\_\_ the table.  
a) in                                      b) between                                      c) on                                      d) next
60. My pencil is in \_\_\_\_\_ the books and the note books.  
a) between                                      b) inside                                      c) outside                                      d) above

**Word stress : Select the correctly spelt / stressed word :**

61. I want to be a photographer.  
a) PHO – to – grapH-er                                      b) PHO – to – graph-er  
c) pho – To – graph-er                                      d) pho – To – Graph-er
62. How do you pronounce this word?  
a) PRO-nounce                                      b) pro-Nounce                                      c) pro-NOUNCE                                      d) PRO - nounce
63. We had a really interesting conversation.  
a) Con-Ver-SA -tion                                      b) Con-VER – SA – tion  
c) Con – VER – sa-tion                                      d) Con – VeR – sa – tion

**Tag Questions : Choose the correct question tag to complete each sentence :**

64. Nobody called \_\_\_\_\_.  
a) do they?                                      b) didn't they?                                      c) did they?                                      d) do not they?
65. They will wash the car \_\_\_\_\_.  
a) will it                                      b) won't they?                                      c) wouldn't they?                                      d) do not they?
66. We must lock the doors \_\_\_\_\_.  
a) mustn't they?                                      b) shouldn't we?                                      c) mustn't we?                                      d) do they?
67. I'm right \_\_\_\_\_.  
a) amn't I?                                      b) am not I?                                      c) aren't I?                                      d) do I?
68. So you bought a car \_\_\_\_\_.  
a) didn't you?                                      b) haven't you?                                      c) weren't you?                                      d) don't I?
69. You wouldn't like to invite my Dad, \_\_\_\_\_.  
a) did you?                                      b) would you?                                      c) won't you?                                      d) don't you?
70. We won't be late, \_\_\_\_\_.  
a) won't me?                                      b) will me?                                      c) are we?                                      d) don't we?

**Synonyms : Choose the word that is closest in meaning.**

71. Mendacity :  
a) Insolence                                      b) Risk taking nature or recklessness  
c) Untruthfulness                                      d) Susceptibility
72. Juxtaposing :  
a) Posting                                      b) Placing side by side  
c) Contrasting                                      d) Combining

73. Obscure :  
a) Block                      b) Obstruct                      c) Constrain                      d) Vague
74. Altercation :  
a) Adjustment                      b) Option                      c) Row                      d) Modification
75. Massive :  
a) Lump sum                      b) Strong                      c) Little                      d) Huge
76. Differ :  
a) Indifferent                      b) Defy                      c) Different                      d) Postpone
77. Animosity :  
a) Agony                      b) Hostility                      c) Warth                      d) Displeasure
78. Boisterous :  
a) Ultimate                      b) Suave                      c) Noisy                      d) Childish
79. Effluent :  
a) Abundant                      b) Costly                      c) Full                      d) Waste
80. Decadence :  
a) Destroy                      b) Declining                      c) Sick                      d) Go weak

**Antonyms : Choose the word that is opposite in meaning :**

81. Absence :  
a) Untidy                      b) Wise                      c) Presence                      d) above
82. Abundant :  
a) Wrong , left                      b) scarce                      c) accidental                      d) wide
83. Accept :  
a) met , left                      b) aid, help                      c) worst                      d) refuse

**Prefixes and suffixes : Choose the correct prefix on suffix from the options given to complete the gap :**

84. In many countries it is \_\_\_\_\_ legal to keep a gun in your house.  
a) ill                      b) un                      c) il                      d) el
85. Which of the following is the suffix of “suit”?  
a) any                      b) able                      c) ness                      d) un
86. Which of the following is the prefix of “Polite”?  
a) im                      b) dis                      c) in                      d) il
87. The \_\_\_\_\_ husband of Malini is a wonderful singer (former husband).  
a) ex....                      b) re ....                      c) pro....                      d) sub....

88. The prefix that can be added to the word 'warp' is \_\_\_\_  
 a) un... b) in... c) uni... d) sub...
89. All \_\_\_\_ curable diseases have to be endured (that cannot be cured)  
 a) in... b) ab... c) ex... d) un...

**Select the correct or preferred spelling for each of these commonly misspelled words :  
 Which of the following spellings is correct?**

90. a) acomodate b) accomodate c) accomodate d) accommodate
91. a) argument b) arguements c) arguemint d) arguemintes
92. a) acknowledgment b) acknowledgment c) acknowlegment d) acknowlegement

**Choose the correct verb / tense form the options given to complete the gap :**

93. Our Holy Books tell us that man \_\_\_\_ mortal.  
 a) is b) was c) will be d) are
94. The teacher asked the boys whether they \_\_\_\_ the problems.  
 a) solve b) have solved c) had solved d) solves

**Choose the pairs of word /phrases from the options given that least expresses a similar relationship to that of the given pair :**

95. Patient : Hospital  
 a) Teacher : School b) Pilot : Aeroplane  
 c) Litigant : Court d) Priest : Church
96. Truck : Cargo  
 a) Ship : Water b) Aircraft : Fuel c) Bus : Passengers d) Theatre : Movie
97. Entomology : Insects  
 a) Oncology : Cancer b) Gerontology : Germs  
 c) Tautology : Tortoises d) Phonology : Telephones
98. See : Invisible  
 a) Sell : Insoluble b) Alpen : Inaluable  
 c) Satisfy : Insatiable d) Differ : Indifferent
99. Duck : Drake  
 a) Bull : Cow b) Dog : Kennel c) Deer : Fawn d) Goose : Gander
100. Gemini : Zodiac  
 a) Star : Galaxy b) Ministry : Government  
 c) May : Year d) Channels : Television

\* \* \* \* \*

**Ver - A - 8 of 8**

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Question Paper Version : B

**First Semester B.Arch./B.Plan. Degree Examination, Dec.2024/Jan.2025**  
**Communicative English**

[Time: 2 hrs.]

[Max. Marks: 100]

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the hundred questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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**Preposition : Choose the suitable preposition :**

1. \_\_\_\_\_ he was not well, he attended the meeting.  
a) In spite of                      b) Although                      c) Despite of                      d) Even
2. It is not possible to complete the work \_\_\_\_\_ we work hard.  
a) in case                      b) unless                      c) as long as                      d) so long as
3. He has not yet recovered \_\_\_\_\_ yesterday's shock.  
a) till                      b) untill                      c) still                      d) from
4. I am planning to meet all my friends \_\_\_\_\_ these holidays.  
a) on                      b) within                      c) during                      d) over
5. I completed my homework \_\_\_\_\_ my mother prepared the dinner.  
a) for                      b) while                      c) during                      d) over
6. There are two students \_\_\_\_\_ the class.  
a) next                      b) in                      c) on                      d) front
7. The oranges are not in the basket. They are \_\_\_\_\_ the table.  
a) in                      b) between                      c) on                      d) next
8. My pencil is in \_\_\_\_\_ the books and the note books.  
a) between                      b) inside                      c) outside                      d) above

**Word stress : Select the correctly spelt / stressed work :**

9. I want to be a photographer.  
 a) PHO – to – graphH-er  
 b) PHO – to – graph-er  
 c) pho – To – graph-er  
 d) pho – To – Graph-er
10. How do you pronounce this word?  
 a) PRO-nounce  
 b) pro-Nounce  
 c) pro-NOUNCE  
 d) PRO - nounce
11. We had a really interesting conversation.  
 a) Con-Ver-SA -tion  
 b) Con-VER – SA – tion  
 c) Con – VER – sa-tion  
 d) Con – VeR – sa – tion

**Tag Questions : Choose the correct question tag to complete each sentence :**

12. Nobody called \_\_\_\_\_.  
 a) do they?  
 b) didn't they?  
 c) did they?  
 d) do not they?
13. They will wash the car \_\_\_\_\_.  
 a) will it  
 b) won't they?  
 c) wouldn't they?  
 d) do not they?
14. We must lock the doors \_\_\_\_\_.  
 a) mustn't they?  
 b) shouldn't we?  
 c) mustn't we?  
 d) do they?
15. I'm right \_\_\_\_\_.  
 a) amn't I?  
 b) am not I?  
 c) aren't I?  
 d) do I?
16. So you bought a car \_\_\_\_\_.  
 a) didn't you?  
 b) haven't you?  
 c) weren't you?  
 d) don't I?
17. You wouldn't like to invite my Dad, \_\_\_\_\_.  
 a) did you?  
 b) would you?  
 c) won't you?  
 d) don't you?
18. We won't be late, \_\_\_\_\_.  
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**Synonyms : Choose the word that is closest in meaning.**

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20. Juxtaposing :  
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21. Obscure :  
 a) Block  
 b) Obstruct  
 c) Constrain  
 d) Vague
22. Altercation :  
 a) Adjustment  
 b) Option  
 c) Row  
 d) Modification

**Ver – B – 2 of 8**

23. Massive :  
a) Lump sum                      b) Strong                      c) Little                      d) Huge
24. Differ :  
a) Indifferent                      b) Defy                      c) Different                      d) Postpone
25. Animosity :  
a) Agony                      b) Hostility                      c) Warth                      d) Displeasure
26. Boisterous :  
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**Antonyms : Choose the word that is opposite in meaning :**

29. Absence :  
a) Untidy                      b) Wise                      c) Presence                      d) above
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a) Wrong , left                      b) scarce                      c) accidental                      d) wide
31. Accept :  
a) met , left                      b) aid, help                      c) worst                      d) refuse

**Prefixes and suffixes : Choose the correct prefix on suffix from the options given to complete the gap :**

32. In many countries it is \_\_\_\_\_ legal to keep a gun in your house.  
a) ill                      b) un                      c) il                      d) el
33. Which of the following is the suffix of “suit”?  
a) any                      b) able                      c) ness                      d) un
34. Which of the following is the prefix of “Polite”?  
a) im                      b) dis                      c) in                      d) il
35. The \_\_\_\_\_ husband of Malini is a wonderful singer (former husband).  
a) ex....                      b) re ....                      c) pro....                      d) sub....
36. The prefix that can be added to the word ‘warp’ is \_\_\_\_\_  
a) un...                      b) in....                      c) uni....                      d) sub....
37. All \_\_\_\_\_ curable diseases have to be endured (that cannot be cured)  
a) in...                      b) ab....                      c) ex....                      d) un....

Select the correct or preferred spelling for each of these commonly misspelled words :  
Which of the following spellings is correct?

38. a) acomodate                      b) accomodate                      c) accommodate                      d) accomodate
39. a) argument                      b) arguements                      c) arguemint                      d) arguemintes
40. a) acknowledgment                      b) acknowledgedment                      c) acknowlegment                      d) acknowlegement

Choose the correct verb / tense form the options given to complete the gap :

41. Our Holy Books tell us that man \_\_\_\_\_ mortal.  
a) is                      b) was                      c) will be                      d) are
42. The teacher asked the boys whether they \_\_\_\_\_ the problems.  
a) solve                      b) have solved                      c) had solved                      d) solves

Choose the pairs of word /phrases from the options given that least expresses a similar relationship to that of the given pair :

43. Patient : Hospital  
a) Teacher : School                      b) Pilot : Aeroplane  
c) Litigant : Court                      d) Priest : Church
44. Truck : Cargo  
a) Ship : Water                      b) Aircraft : Fuel                      c) Bus : Passengers                      d) Theatre : Movie
45. Entomology : Insects  
a) Oncology : Cancer                      b) Gerontology : Germs  
c) Tautology : Tortoises                      d) Phonology : Telephones
46. See : Invisible  
a) Sell : Insoluble                      b) Alpen : Inaliable  
c) Satisfy : Insatiable                      d) Differ : Indifferent
47. Duck : Drake  
a) Bull : Cow                      b) Dog : Kennel                      c) Deer : Fawn                      d) Goose : Gander
48. Gemini : Zodiac  
a) Star : Galaxy                      b) Ministry : Government  
c) May : Year                      d) Channels : Television

Choose the correct option from those given in each of the sentences below :

49. The direction in which the formal communication flows is always \_\_\_\_\_.  
a) Upward                      b) Downward                      c) Horizontal                      d) All of these
50. Communication in an organization should ideally flow \_\_\_\_\_.  
a) From top to bottom                      b) From bottom to top  
c) Both ways                      d) None of these



51. Which one of the following cannot become a type of written communication \_\_\_\_?
- Pictures and visual aids
  - Meetings and conferences
  - Letters and suggestions
  - Rules and Instructions
52. Consider the following statements about communication :  
The true statements are \_\_\_\_
- It is a process of interactions with people and environment.
  - Two or more individuals interact and influence the ideas, beliefs and attitudes of each others.
  - They can exchange information through words , gestures, signs and symbols , expressions etc. Assume using the following codes :
- (a) & (b)
  - (b) & (c)
  - (a) & (c)
  - (a) , (b) & (c)
53. Which of the following is/are not included in the tools of verbal communication?
- Listening
  - Reading
  - Writing
  - Graphics
54. Which of the following statements explain Interpersonal skills?
- The skills that a person uses to interact with other people.
  - People skills or communication skills
  - It explains how people relate to one another
  - All of these
55. Which of the following is not a way to improve interpersonal skills?
- Think positively and enter the mindset to work well with others and maintain good relationships.
  - Criticise others (or) yourself
  - Do not criticize others or yourself
  - Be patient.
56. Consider the following :
- Common frame of reference
  - Mutual Interest
  - Common Language
  - Common Environment
- Which of the above is/are features of effective communication?
- a, b, c & d
  - a , b & c
  - a & b
  - a & c
57. In communication, when people do not talk much question even less and do very little it is called \_\_\_\_.
- Assertive style
  - Passive style
  - Passive – aggressive style
  - Aggressive style
58. Which of the following are the key elements of communication?
- Communication is a two way process
  - There has to be a message
  - Commonness of understanding
  - All of these
59. Interpersonal communication is the process by which people exchange information , feelings and meaning through verbal and non – verbal messages.
- True
  - False
  - Possible
  - May be
60. Communicating the right way is not equally important in every walk of life , be it in personal , professional (or) social life.
- True
  - False
  - Possible
  - May be

61. The success of any business lies as much in networking and building sound professional relationship as it does in individual tact and business acumen – communication is a crucial decisive factor in business relations.  
a) True                      b) False                      c) Possible                      d) May be
62. Maintaining professional etiquette in oral and written business communication is of utmost importance and must not be taken lightly.  
a) True                      b) False                      c) Possible                      d) May be
63. Communication is not indeed, the very lubricant that makes machinery of human relations function smoothly.  
a) True                      b) False                      c) Possible                      d) May be

**Choose the least word to describe the parts of speech from those given in each of the sentences below as underlined :**

64. I always go to the park on the weekends.  
a) Noun                      b) Adjective                      c) Verb                      d) Adverb
65. On cold winter days, I love to have a cup of hot chocolate.  
a) Adverb                      b) Adjective                      c) Verb                      d) Pronoun
66. Dinosaurs were very large, and they lived millions of years ago.  
a) Noun                      b) Verb                      c) Adjective                      d) Preposition
67. Those flowers are very beautiful. How much do they cost?  
a) Adjective                      b) Verb                      c) Conjunction                      d) Preposition
68. Stewart can speak Arabic very well because he lived in Egypt for a year.  
a) Verb                      b) Adjective                      c) Adverb                      d) Conjunction

**Choose the correct option from given in each of the sentences below :**

69. According to phonetic method, the unit of a word is  
a) Sentence                      b) Word                      c) Sound                      d) Letter
70. Total number of sounds in English language is :  
a) 12                      b) 8                      c) 20                      d) 44
71. Which of the following has / i:/ sound :  
a) Car                      b) Seat                      c) fit                      d) Books
72. The word “Doctor” has \_\_\_\_\_  
a) Two syllables with stress on one                      b) Two syllables with stress on both  
c) Two syllables with stress on first                      d) Two syllables with stress on second
73. Total number of vowel sounds in English language is :  
a) 12                      b) 8                      c) 44                      d) 20
74. Majority of staff members were not satisfied with the new director. (Which word is a compound noun?).  
a) Director                      b) Staff members                      c) New                      d) majority

75. When we were going up to hill, we have seen an old castle. (Which word is a noun?)  
a) will                      b) seen                      c) we                      d) old
76. Alice's father is a surgeon, he mostly does not have time to spend with his family. (Which word is a singular possessive noun?)  
a) Surgeon                      b) Time                      c) Family                      d) Alice's father
77. Australian government will bring together anti – terror laws – (Which word is a nominative noun?)  
a) Bring                      b) Australian                      c) Anti - terror                      d) Government
78. They discussed the problems, but could not find the solution. (Which word is across count noun?)  
a) Could not                      b) find                      c) solution                      d) discussed

**Identify whether the underlined nouns are common , proper , collective or abstract :**

79. Honesty is the best policy.  
a) Common                      b) Proper                      c) Collective                      d) Abstract
80. Solomon was famous for his wisdom.  
a) Common                      b) Proper                      c) Collective                      d) Abstract
81. James is a bright student.  
a) Common                      b) Proper                      c) Collective                      d) Abstract
82. My family lives in that house.  
a) Common                      b) Proper                      c) Collective                      d) Abstract
83. A committee of five was appointed.  
a) Common                      b) Proper                      c) Collective                      d) Abstract

**Silent and Non – silent letters. Select the missing silent letter from the options given. Check the spelling carefully :**

84. I – now London very well.  
a) now                      b) know                      c) knew                      d) Known
85. Reading is easier than \_\_\_\_ riting.  
a) Speaking                      b) riting                      c) writing                      d) listening
86. I always \_\_\_\_ rap up warm in winter.  
a) grap                      b) snap                      c) group                      d) wrap
87. In summer ther are loads of small files called \_\_\_\_ nates everywhere.  
a) gnates                      b) gnants                      c) snates                      d) wnats
88. People read \_\_\_\_ salms and sing hymns in church.  
a) Phsalms                      b) Psalms                      c) SSLaws                      d) Pisalws

**Choose the most suitable answer that identifies the homophones in the sentences:**

98. India \_\_\_\_\_ the cricket match by 26 runs.  
a) One                                      b) Won                                      c) Ones                                      d) Owned
99. The fisherman \_\_\_\_\_ a bit fish.  
a) Court                                      b) Catch                                      c) Caught                                      d) Collect
100. The doctor took blood from my \_\_\_\_\_.  
a) Vein                                      b) Vain                                      c) Vaian                                      d) Vyine
101. It was good to be back in \_\_\_\_\_.  
a) Sink                                      b) Sync                                      c) Synchronic                                      d) Sinken
102. She \_\_\_\_\_ after standing for two hours in a queue.  
a) Fainted                                      b) Feinted                                      c) Faint                                      d) eint

**Select the correct articles for the following :**

103. Travelling by flight is really \_\_\_\_\_ experience to be remembered.  
a) an                                      b) a                                      c) the                                      d) no article
104. The sun rises in \_\_\_\_\_ east.  
a) an                                      b) a                                      c) the                                      d) no article
105. I go to \_\_\_\_\_ school every morning.  
a) an                                      b) a                                      c) the                                      d) no article
106. I carried \_\_\_\_\_ umbrella with me while going to school.  
a) an                                      b) a                                      c) the                                      d) no article
107. Ravi is \_\_\_\_\_ tallest boy among his friends.  
a) an                                      b) a                                      c) the                                      d) no article

**Speech sounds :**

99. Which of the following has / a: / sound.  
a) pet                                      b) am                                      c) about                                      d) aunt
100. Diphthong is the :  
a) Pure vowel sound                                      b) Pure constant sound  
c) Vowel glides (or) mixed vowel sounds                                      d) None of these

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Question Paper Version : C

**First Semester B.Arch./B.Plan. Degree Examination, Dec.2024/Jan.2025**  
**Communicative English**

[Time: 2 hrs.]

[Max. Marks: 100]

**INSTRUCTIONS TO THE CANDIDATES**

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2. Use only **Black ball point pen** for writing / darkening the circles.
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**Choose the least word to describe the parts of speech from those given in each of the sentences below as underlined :**

1. I always go to the park on the weekends.  
a) Noun                      b) Adjective                      c) Verb                      d) Adverb
2. On cold winter days, I love to have a cup of hot chocolate.  
a) Adverb                      b) Adjective                      c) Verb                      d) Pronoun
3. Dinosaurs were very large, and they lived millions of years ago.  
a) Noun                      b) Verb                      c) Adjective                      d) Preposition
4. Those flowers are very beautiful. How much do they cost?  
a) Adjective                      b) Verb                      c) Conjunction                      d) Preposition
5. Stewart can speak Arabic very well because he lived in Egypt for a year.  
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**Choose the correct option from given in each of the sentences below :**

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7. Total number of sounds in English language is :  
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a) will                      b) seen                      c) we                      d) old
13. Alice's father is a surgeon, he mostly does not have time to spend with his family. (Which word is a singular possessive noun?)  
a) Surgeon                      b) Time                      c) Family                      d) Alice's father
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a) Bring                      b) Australian                      c) Anti - terror                      d) Government
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**Identify whether the underlined nouns are common , proper , collective or abstract :**

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19. My family lives in that house.  
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20. A committee of five was appointed.  
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**Silent and Non – silent letters. Select the missing silent letter from the options given. Check the spelling carefully :**

21. I – now London very well.  
a) now                      b) know                      c) knew                      d) Known

22. Reading is easier than \_\_\_\_ riting.  
a) Speaking                      b) riting                      c) writing                      d) listening
23. I always \_\_\_\_ rap up warm in winter.  
a) grap                      b) snap                      c) group                      d) wrap
24. In summer ther are loads of small files called \_\_\_\_ nates everywhere.  
a) gnates                      b) gnants                      c) snates                      d) wnats
25. People read \_\_\_\_ salms and sing hymns in church.  
a) Phsalms                      b) Psalms                      c) SSLaws                      d) Pisalws

**Choose the correct option from those given in each of the sentences below :**

26. The direction in which the formal communication flows is always \_\_\_\_\_.  
a) Upward                      b) Downward                      c) Horizontal                      d) All of these
27. Communication in an organization should ideally flow \_\_\_\_\_.  
a) From top to bottom                      b) From bottom to top  
c) Both ways                      d) None of these
28. Which one of the following cannot become a type of written communication \_\_\_\_?  
a) Pictures and visual aids                      b) Meetings and conferences  
c) Letters and suggestions                      d) Rules and Instructions
29. **Consider the following statements about communication :**  
The true statements are \_\_\_\_\_  
a) It is a process of interactions with people and environment.  
b) Two or more individuals interact and influence the ideas, beliefs and attitudes of each others.  
c) They can exchange information through words , gestures, signs and symbols , expressions etc. Assume using the following codes :  
a) (a) & (b)                      b) (b) & (c)                      c) (a) & (c)                      d) (a) , (b) & (c)
30. Which of the following is/are not included in the tools of verbal communication?  
a) Listening                      b) Reading                      c) Writing                      d) Graphics
31. Which of the following statements explain Interpersonal skills?  
a) The skills that a person uses to interact with other people.  
b) People skills or communication skills  
c) It explains how people relate to one another  
d) All of these
32. Which of the following is not a way to improve interpersonal skills?  
a) Think positively and enter the mindset to work well with others and maintain good relationships.  
b) Criticise others (or) yourself  
c) Do not criticize others or yourself  
d) Be patient.

33. Consider the following :
- |                              |                       |
|------------------------------|-----------------------|
| a) Common frame of reference | b) Mutual Interest    |
| c) Common Language           | d) Common Environment |
- Which of the above is/are features of effective communication?
- |                |             |          |          |
|----------------|-------------|----------|----------|
| a) a, b, c & d | b) a, b & c | c) a & b | d) a & c |
|----------------|-------------|----------|----------|
34. In communication, when people do not talk much question even less and do very little it is called \_\_\_\_.
- |                               |                     |
|-------------------------------|---------------------|
| a) Assertive style            | b) Passive style    |
| c) Passive – aggressive style | d) Aggressive style |
35. Which of the following are the key elements of communication?
- |                                       |                              |
|---------------------------------------|------------------------------|
| a) Communication is a two way process | b) There has to be a message |
| c) Commonness of understanding        | d) All of these              |
36. Interpersonal communication is the process by which people exchange information , feelings and meaning through verbal and non – verbal messages.
- |         |          |             |           |
|---------|----------|-------------|-----------|
| a) True | b) False | c) Possible | d) May be |
|---------|----------|-------------|-----------|
37. Communicating the right way is not equally important in every walk of life , be it in personal , professional (or) social life.
- |         |          |             |           |
|---------|----------|-------------|-----------|
| a) True | b) False | c) Possible | d) May be |
|---------|----------|-------------|-----------|
38. The success of any business lies as much in networking and building sound professional relationship as it does in individual tact and business acumen – communication is a crucial decisive factor in business relations.
- |         |          |             |           |
|---------|----------|-------------|-----------|
| a) True | b) False | c) Possible | d) May be |
|---------|----------|-------------|-----------|
39. Maintaining professional etiquette in oral and written business communication is of utmost importance and must not be taken lightly.
- |         |          |             |           |
|---------|----------|-------------|-----------|
| a) True | b) False | c) Possible | d) May be |
|---------|----------|-------------|-----------|
40. Communication is not indeed, the very lubricant that makes machinery of human relations function smoothly.
- |         |          |             |           |
|---------|----------|-------------|-----------|
| a) True | b) False | c) Possible | d) May be |
|---------|----------|-------------|-----------|

**Choose the most suitable answer that identifies the homophones in the sentences:**

41. India \_\_\_\_ the cricket match by 26 runs.
- |        |        |         |          |
|--------|--------|---------|----------|
| a) One | b) Won | c) Ones | d) Owned |
|--------|--------|---------|----------|
42. The fisherman \_\_\_\_ a bit fish.
- |          |          |           |            |
|----------|----------|-----------|------------|
| a) Court | b) Catch | c) Caught | d) Collect |
|----------|----------|-----------|------------|
43. The doctor took blood from my \_\_\_\_
- |         |         |          |          |
|---------|---------|----------|----------|
| a) Vein | b) Vain | c) Vaian | d) Vyine |
|---------|---------|----------|----------|
44. It was good to be back in \_\_\_\_
- |         |         |               |           |
|---------|---------|---------------|-----------|
| a) Sink | b) Sync | c) Synchronic | d) Sinken |
|---------|---------|---------------|-----------|



45. She \_\_\_\_\_ after standing for two hours in a queue.  
 a) Fainted                      b) Feinted                      c) Faint                      d) eint

**Select the correct articles for the following :**

46. Travelling by flight is really \_\_\_\_\_ experience to be remembered.  
 a) an                      b) a                      c) the                      d) no article
47. The sun rises in \_\_\_\_\_ east.  
 a) an                      b) a                      c) the                      d) no article
48. I go to \_\_\_\_\_ school every morning.  
 a) an                      b) a                      c) the                      d) no article
49. I carried \_\_\_\_\_ umbrella with me while going to school.  
 a) an                      b) a                      c) the                      d) no article
50. Ravi is \_\_\_\_\_ tallest boy among his friends.  
 a) an                      b) a                      c) the                      d) no article

**Speech sounds :**

51. Which of the following has / a: / sound.  
 a) pet                      b) am                      c) about                      d) aunt
52. Diphthong is the :  
 a) Pure vowel sound                      b) Pure constant sound  
 c) Vowel glides (or) mixed vowel sounds                      d) None of these

**Preposition : Choose the suitable preposition :**

53. \_\_\_\_\_ he was not well, he attended the meeting.  
 a) In spite of                      b) Although                      c) Despite of                      d) Even
54. It is not possible to complete the work \_\_\_\_\_ we work hard.  
 a) in case                      b) unless                      c) as long as                      d) so long as
55. He has not yet recovered \_\_\_\_\_ yesterday's shock.  
 a) till                      b) untill                      c) still                      d) from
56. I am planning to meet all my friends \_\_\_\_\_ these holidays.  
 a) on                      b) within                      c) during                      d) over
57. I completed my homework \_\_\_\_\_ my mother prepared the dinner.  
 a) for                      b) while                      c) during                      d) over
58. There are two students \_\_\_\_\_ the class.  
 a) next                      b) in                      c) on                      d) front

59. The oranges are not in the basket. They are \_\_\_\_\_ the table.  
 a) in                                      b) between                                      c) on                                      d) next
60. My pencil is in \_\_\_\_\_ the books and the note books.  
 a) between                                      b) inside                                      c) outside                                      d) above

**Word stress : Select the correctly spelt / stressed work :**

61. I want to be a photographer.  
 a) PHO – to – grapH-er                                      b) PHO – to – graph-er  
 c) pho – To – graph-er                                      d) pho – To – Graph-er
62. How do you pronounce this word?  
 a) PRO-nounce                                      b) pro-Nounce                                      c) pro-NOUNCE                                      d) PRO - nounce
63. We had a really interesting conversation.  
 a) Con-Ver-SA -tion                                      b) Con-VER – SA – tion  
 c) Con – VER – sa-tion                                      d) Con – VeR – sa – tion

**Tag Questions : Choose the correct question tag to complete each sentence :**

64. Nobody called \_\_\_\_\_.  
 a) do they?                                      b) didn't they?                                      c) did they?                                      d) do not they?
65. They will wash the car \_\_\_\_\_.  
 a) will it                                      b) won't they?                                      c) wouldn't they?                                      d) do not they?
66. We must lock the doors \_\_\_\_\_.  
 a) mustn't they?                                      b) shouldn't we?                                      c) mustn't we?                                      d) do they?
67. I'm right \_\_\_\_\_.  
 a) amn't I?                                      b) am not I?                                      c) aren't I?                                      d) do I?
68. So you bought a car \_\_\_\_\_.  
 a) didn't you?                                      b) haven't you?                                      c) weren't you?                                      d) don't I?
69. You wouldn't like to invite my Dad, \_\_\_\_\_.  
 a) did you?                                      b) would you?                                      c) won't you?                                      d) don't you?
70. We won't be late, \_\_\_\_\_.  
 a) won't me?                                      b) will me?                                      c) are we?                                      d) don't we?

**Synonyms : Choose the word that is closest in meaning.**

71. Mendacity :  
 a) Insolence                                      b) Risk taking nature or recklessness  
 c) Untruthfulness                                      d) Susceptibility
72. Juxtaposing :  
 a) Posting                                      b) Placing side by side  
 c) Contrasting                                      d) Combining

73. Obscure :  
a) Block                      b) Obstruct                      c) Constrain                      d) Vague
74. Altercation :  
a) Adjustment                      b) Option                      c) Row                      d) Modification
75. Massive :  
a) Lump sum                      b) Strong                      c) Little                      d) Huge
76. Differ :  
a) Indifferent                      b) Defy                      c) Different                      d) Postpone
77. Animosity :  
a) Agony                      b) Hostility                      c) Warth                      d) Displeasure
78. Boisterous :  
a) Ultimate                      b) Suave                      c) Noisy                      d) Childish
79. Effluent :  
a) Abundant                      b) Costly                      c) Full                      d) Waste
80. Decadence :  
a) Destroy                      b) Declining                      c) Sick                      d) Go weak

**Choose the correct verb / tense form the options given to complete the gap :**

81. Our Holy Books tell us that man \_\_\_\_\_ mortal.  
a) is                      b) was                      c) will be                      d) are
82. The teacher asked the boys whether they \_\_\_\_\_ the problems.  
a) solve                      b) have solved                      c) had solved                      d) solves

**Choose the pairs of word /phrases from the options given that least expresses a similar relationship to that of the given pair :**

83. Patient : Hospital  
a) Teacher : School                      b) Pilot : Aeroplane  
c) Litigant : Court                      d) Priest : Church
84. Truck : Cargo  
a) Ship : Water                      b) Aircraft : Fuel                      c) Bus : Passengers                      d) Theatre : Movie
85. Entomology : Insects  
a) Oncology : Cancer                      b) Gerontology : Germs  
c) Tautology : Tortoises                      d) Phonology : Telephones
86. See : Invisible  
a) Sell : Insoluble                      b) Alpen : Inaluable  
c) Satisfy : Insatiable                      d) Differ : Indifferent

87. Duck : Drake  
 a) Bull : Cow                      b) Dog : Kennel                      c) Deer : Fawn                      d) Goose : Gander
88. Gemini : Zodiac  
 a) Star : Galaxy                      b) Ministry : Government  
 c) May : Year                      d) Channels : Television

**Antonyms : Choose the word that is opposite in meaning :**

89. Absence :  
 a) Untidy                      b) Wise                      c) Presence                      d) above
90. Abundant :  
 a) Wrong , left                      b) scarce                      c) accidental                      d) wide
91. Accept :  
 a) met , left                      b) aid, help                      c) worst                      d) refuse

**Prefixes and suffixes : Choose the correct prefix or suffix from the options given to complete the gap :**

92. In many countries it is \_\_\_\_\_ legal to keep a gun in your house.  
 a) ill                      b) un                      c) il                      d) el
93. Which of the following is the suffix of “suit”?  
 a) any                      b) able                      c) ness                      d) un
94. Which of the following is the prefix of “Polite”?  
 a) im                      b) dis                      c) in                      d) il
95. The \_\_\_\_\_ husband of Malini is a wonderful singer (former husband).  
 a) ex....                      b) re ....                      c) pro....                      d) sub....
96. The prefix that can be added to the word ‘warp’ is \_\_\_\_\_  
 a) un...                      b) in....                      c) uni....                      d) sub....
97. All \_\_\_\_\_ curable diseases have to be endured (that cannot be cured)  
 a) in...                      b) ab....                      c) ex....                      d) un....

**Select the correct or preferred spelling for each of these commonly misspelled words : Which of the following spellings is correct?**

98. a) acomodate                      b) accomodate                      c) accomodate                      d) accommodate
99. a) argument                      b) arguements                      c) arguemint                      d) arguemintes
100. a) acknowledgment                      b) acknowledgment                      c) acknowlegment                      d) acknowlegement

\* \* \* \* \*

Ver - C - 8 of 8

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Question Paper Version : D

**First Semester B.Arch./B.Plan. Degree Examination, Dec.2024/Jan.2025**  
**Communicative English**

[Time: 2 hrs.]

[Max. Marks: 100]

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the hundred questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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**Antonyms : Choose the word that is opposite in meaning :**

1. Absence :  
a) Untidy                      b) Wise                      c) Presence                      d) above
2. Abundant :  
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 Which of the following spellings is correct?**

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12. a) acknowledgment                      b) acknowledgedment                      c) acknowlegment                      d) acknowlegement

**Choose the correct verb / tense form the options given to complete the gap :**

13. Our Holy Books tell us that man \_\_\_\_ mortal.  
 a) is                      b) was                      c) will be                      d) are
14. The teacher asked the boys whether they \_\_\_\_ the problems.  
 a) solve                      b) have solved                      c) had solved                      d) solves

**Choose the pairs of word /phrases from the options given that least expresses a similar relationship to that of the given pair :**

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 a) Ship : Water                      b) Aircraft : Fuel                      c) Bus : Passengers                      d) Theatre : Movie
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**Preposition : Choose the suitable preposition :**

21. \_\_\_\_ he was not well, he attended the meeting.  
 a) In spite of                      b) Although                      c) Despite of                      d) Even

22. It is not possible to complete the work \_\_\_\_\_ we work hard.  
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23. He has not yet recovered \_\_\_\_\_ yesterday's shock.  
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24. I am planning to meet all my friends \_\_\_\_\_ these holidays.  
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25. I completed my homework \_\_\_\_\_ my mother prepared the dinner.  
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**Word stress : Select the correctly spelt / stressed word :**

29. I want to be a photographer.  
a) PHO – to – grapH-er                      b) PHO – to – graph-er  
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**Tag Questions : Choose the correct question tag to complete each sentence :**

32. Nobody called \_\_\_\_\_  
a) do they?                      b) didn't they?                      c) did they?                      d) do not they?
33. They will wash the car \_\_\_\_\_  
a) will it                      b) won't they?                      c) wouldn't they?                      d) do not they?
34. We must lock the doors \_\_\_\_\_  
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	a) Abundant	b) Costly	c) Full
			d) Waste
<b>48.</b>	Decadence :		
	a) Destroy	b) Declining	c) Sick
			d) Go weak

49. Honesty is the best policy.  
a) Common                      b) Proper                      c) Collective                      d) Abstract

50. Solomon was famous for his wisdom.  
a) Common                      b) Proper                      c) Collective                      d) Abstract

51. James is a bright student.  
a) Common                      b) Proper                      c) Collective                      d) Abstract



52. My family lives in that house.  
a) Common                      b) Proper                      c) Collective                      d) Abstract
53. A committee of five was appointed.  
a) Common                      b) Proper                      c) Collective                      d) Abstract

**Silent and Non – silent letters. Select the missing silent letter from the options given. Check the spelling carefully :**

54. I – now London very well.  
a) now                      b) know                      c) knew                      d) Known
55. Reading is easier than \_\_\_\_ riting.  
a) Speaking                      b) riting                      c) writing                      d) listening
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a) The skills that a person uses to interact with other people.  
b) People skills or communication skills  
c) It explains how people relate to one another  
d) All of these

77. Which of the following is not a way to improve interpersonal skills?  
 a) Think positively and enter the mindset to work well with others and maintain good relationships.  
 b) Criticise others (or) yourself  
 c) Do not criticize others or yourself  
 d) Be patient.
78. Consider the following :  
 a) Common frame of reference                      b) Mutual Interest  
 c) Common Language                                  d) Common Environment  
 Which of the above is/are features of effective communication?  
 a) a, b, c & d                      b) a, b & c                      c) a & b                      d) a & c
79. In communication, when people do not talk much question even less and do very little it is called \_\_\_\_\_.  
 a) Assertive style    b) Passive style  
 c) Passive – aggressive style                              d) Aggressive style
80. Which of the following are the key elements of communication?  
 a) Communication is a two way process              b) There has to be a message  
 c) Commonness of understanding                      d) All of these
81. Interpersonal communication is the process by which people exchange information , feelings and meaning through verbal and non – verbal messages.  
 a) True                                      b) False                                      c) Possible                                      d) May be
82. Communicating the right way is not equally important in every walk of life , be it in personal , professional (or) social life.  
 a) True                                      b) False                                      c) Possible                                      d) May be
83. The success of any business lies as much in networking and building sound professional relationship as it does in individual tact and business acumen – communication is a crucial decisive factor in business relations.  
 a) True                                      b) False                                      c) Possible                                      d) May be
84. Maintaining professional etiquette in oral and written business communication is of utmost importance and must not be taken lightly.  
 a) True                                      b) False                                      c) Possible                                      d) May be
85. Communication is not indeed, the very lubricant that makes machinery of human relations function smoothly.  
 a) True                                      b) False                                      c) Possible                                      d) May be

**Choose the least word to describe the parts of speech from those given in each of the sentences below as underlined :**

86. I always go to the park on the weekends.  
 a) Noun                                      b) Adjective                                      c) Verb                                      d) Adverb
87. On cold winter days, I love to have a cup of hot chocolate.  
 a) Adverb                                      b) Adjective                                      c) Verb                                      d) Pronoun

88. Dinosaurs were very large, and they lived millions of years ago.  
a) Noun                      b) Verb                      c) Adjective                      d) Preposition
89. Those flowers are very beautiful. How much do they cost?  
a) Adjective                      b) Verb                      c) Conjunction                      d) Preposition
90. Stewart can speak Arabic very well because he lived in Egypt for a year.  
a) Verb                      b) Adjective                      c) Adverb                      d) Conjunction

**Choose the correct option from given in each of the sentences below :**

91. According to phonetic method, the unit of a word is  
a) Sentence                      b) Word                      c) Sound                      d) Letter
92. Total number of sounds in English language is :  
a) 12                      b) 8                      c) 20                      d) 44
93. Which of the following has / i / sound :  
a) Car                      b) Seat                      c) fit                      d) Books
94. The word "Doctor" has \_\_\_\_\_  
a) Two syllables with stress on one                      b) Two syllables with stress on both  
c) Two syllables with stress on first                      d) Two syllables with stress on second
95. Total number of vowel sounds in English language is :  
a) 12                      b) 8                      c) 44                      d) 20
96. Majority of staff members were not satisfied with the new director. (Which word is a compound noun?)  
a) Director                      b) Staff members                      c) New                      d) majority
97. When we were going up to hill, we have seen an old castle. (Which word is a noun?)  
a) will                      b) seen                      c) we                      d) old
98. Alice's father is a surgeon, he mostly does not have time to spend with his family. (Which word is a singular possessive noun?)  
a) Surgeon                      b) Time                      c) Family                      d) Alice's father
99. Australian government will bring together anti – terror laws – (Which word is a nominative noun?)  
a) Bring                      b) Australian                      c) Anti - terror                      d) Government
100. They discussed the problems, but could not find the solution. (Which word is across count noun?)  
a) Could not                      b) find                      c) solution                      d) discussed

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Question Paper Version : A

**First Semester B.Arch./B.Planning Degree Examination, Dec.2024/Jan.2025**  
**Innovation and Design Thinking**

Time: 1 hr.]

[Max. Marks: 50

### INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

- 
1. What is Design Thinking?
    - a) A method facilitated by UX designers
    - b) A process for creative problem solving
    - c) A process to teach design to non-designers
    - d) A methodology developed to discard old design methods.
  2. To empathize, one has to
 

a) observe	b) Engage	c) Listen	d) All of these
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  3. What happens in the test stage of design thinking?
    - a) You conduct a written test of your design team
    - b) You allow consumers to test a product or service
    - c) You engage in internal testing with employees
    - d) You test products designed by competitors
  4. Collecting \_\_\_\_ is an important portion of testing a prototype in the test stage of design thinking.
 

a) Pictures	b) Money
c) Feedback	d) Emails
  5. Mind maps are used to \_\_\_\_ ideas.
 

a) Generate	b) Visualize
c) Structure	d) All of these
  6. Which of the following are NOT tools of Design Thinking?
 

a) Co-creation	b) Prototyping	c) Mind mapping	d) Online Marketing
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7. A hypothesis is \_\_\_\_\_
  - a) A wished for result that the researcher concludes the research with
  - b) A complicated set of sentences that pulls variables into proposed complex relationship
  - c) A Conjecture that is grounded in support background originating from secondary research
  - d) None of these
8. What is your first model/design of a product called?
  - a) Draft
  - b) Rough Draft
  - c) Prototype
  - d) Practice design
9. To Ideate is
  - a) To rapidly change
  - b) When you create a 3D model of your design
  - c) The process for creating and sharing ideas where you use images and sketches instead of words to describe your idea
  - d) When you brainstorm ideas, get feedback, create an initial design, share the design and iterate.
10. In design, where does the information used to put together a problem statement come from?
  - a) The design stage
  - b) The Ideate stage
  - c) The Define stage
  - d) The Testing stage
11. The final step in the Design process is to \_\_\_\_\_
  - a) Test
  - b) Define
  - c) Ideate
  - d) Empathize
12. Which is NOT an aspect of the Define step of design thinking?
  - a) Create a composite user to give perspective to the solution
  - b) Develop a point of view statement to state user's need
  - c) Define as many possible solutions to the problem as possible
  - d) Recognize a challenge with a "How might We" question.
13. At what step do you want to complete the POV point of view?
  - a) Empathy
  - b) Prototype
  - c) Define
  - d) Ideate
14. Collaborative teamwork is essential in design thinking for
  - a) Equal importance to all members
  - b) Solving multifaceted problems
  - c) Unbiased selection of ideas
  - d) Better failure management
15. Design Thinking process began with the following 3 steps.
  - a) Understand – Improve – Apply
  - b) Define-Ideate-Build
  - c) Study-Solve-create
  - d) Understand-Ideate-create
16. Human-centric design was re-interpreted as an acronym to mean
  - a) Hear, Create, Deliver
  - b) Hear, Create, Design
  - c) Hold, Create, Deliver
  - d) Hear, Compile, Deliver

17. The ultimate goal of design thinking is to help you design better  
a) Services                      b) Products                      c) Experiences                      d) All of these
18. Design thinking typically is a  
a) Non-linear process  
b) Linear process  
c) Cyclic process  
d) None of these
19. Design thinking above  
a) Waterfall model  
b) Agile methodology  
c) Both of these  
d) None of these
20. Which of the following sequence is correct for waterfall methodology?  
a) Define-Design-Develop-Test-Deploy                      b) Define-Develop-Design-Test-Deploy  
c) Define-Design-Develop-Deploy-Test                      d) Design-Define-Develop-Test-Deploy
21. What are the steps of Design thinking process?  
a) Understand > Draw > Ideate > Create > Test  
b) Empathise > Define > Ideate > Prototype > Test  
c) Empathise > Design > Implement > Produce > Test  
d) Understand > Design > Ideate > Produce > Try
22. Which of the below firm is associated the most with design thinking?  
a) Ikea                      b) Ideo                      c) Idea                      d) Ikei
23. Which of the below is incorrect?  
a) PepsiCo has turned Design thinking into its strategy  
b) Air BnB avoided bankruptcy and turned profitable using Design thinking  
c) Google has a 3 steps process to bring about new innovations  
d) All of these are correct
24. Which of the following is right?  
a) Design sensibilities are a combination of design features, qualities and aesthetics  
b) Empathy is to see no evil, hear no evil and speak no evil.  
c) Design sensibilities are complex feelings such as amenity, pleasantness, comfort, pleasure, etc.  
d) Empathy is seeing with your own eye, hearing with your own ear and feeling the pain with your own heart.  
d) a and d
25. Identify the correct statement  
a) To derive the power of design thinking, individual's teams and organizations must have a leap of faith about the existence of a solution.  
b) Leap of-faith is the page in the manual of design thinking containing the core philosophy about design thinking  
c) Design thinking Pre-supposes that some people are inherently creative and become successful in creative product development. The team should have atleast one such person.  
d) None of these

26. A college is redesigning its website. Current students are the main users of the website. Which one of the below elements should definitely be on the website?
- a) College rules and regulations
  - b) Information on faculty members
  - c) Information about courses
  - d) Alumni details
27. At what step do you want to complete the POV point of view?
- a) Empathy
  - b) Prototype
  - c) Define
  - d) Ideate
28. Rototype should only be demonstrated and tested within the team
- a) True
  - b) False
29. When defining a problem, your problem statement should include a solution.
- a) True
  - b) False
30. No alterations are to be made in the design after testing phase.
- a) True
  - b) False
31. Being an experimental phase, continuous iterations can take place here, which phase it refers to?
- a) Define
  - b) Empathize
  - c) Prototype
  - d) None of these
32. You would interview people to gain an understanding of how they feel during the \_\_\_\_ stage of Design thinking.
- a) Prototype
  - b) Define
  - c) Ideate
  - d) Empathize
33. During which stage would you, consult experts to learn more about the areas of concern and to gain an understanding other people experience.
- a) Prototype
  - b) Define
  - c) Ideate
  - d) Empathize
34. During which stage would you write a problem statement focused on a specific need or goal
- a) Prototype
  - b) Define
  - c) Ideate
  - d) Empathize
35. Which of the following is not one of the profiles of design thinkers?
- a) Empathy
  - b) Simplicity
  - c) Integrative thinking
  - d) Experimentalism
36. Design Thinking Approach leads to
- a) Technology centric designs
  - b) Marketing centric designs
  - c) People centric design
  - d) All of these
37. Which one of the following is not a phase of prototyping model?
- a) Quick design
  - b) Prototype refinement
  - c) Coding
  - d) Engineer product



38. What is point of view (POV) in design thinking?
- A report from the design team about the product
  - A customers opinion about interactions with your brand
  - A written statement of a customer's problem or need
  - The opinion of the manager about how to brainstorm
39. Where do the insights in point of view (POV) in design thinking come from?
- Researching other products on the market
  - Interviewing the general public on social media
  - Synthesizing the data that has been gathered
  - Developing ideas during brainstorming
40. \_\_\_\_\_ story telling is the most compelling type.
- Aural
  - Visual
  - Textual
  - All of these
41. The three "I" s of Design thinking DO NOT include
- Interest
  - Implementation
  - Inspiration
  - Ideation
42. The purpose of MVP is NOT.
- Be able to test a product hypothesis with maximum resources
  - Accelerate learning
  - Reduce wasted engineering hours
  - Get the product to early customers as soon as possible
43. Design thinking is best suited to addressing problems at the intersection of
- Business and society
  - Logic and emotion
  - Human needs and economic demands
  - All of these
44. \_\_\_\_\_ is an iterative and incremental method of managing development and design
- Waterfall model
  - Agile Methodology
  - Cyclic Methodology
  - All of these
45. BPM stands for
- Building Product Management
  - Business Product Management
  - Business Process Management
  - Basic Product Management
46. \_\_\_\_\_ is the way to narrow down the thoughts to reach at the final solution.
- Convergent thinking
  - Divergent thinking
  - None of them
  - Both of them
47. Journey Mapping is also called \_\_\_\_\_ mapping
- Path
  - Experience
  - Conduct
  - Feedback

48. Design thinking principles DO NOT include
- a) Feasibility
  - b) Viability
  - c) Desirability
  - d) Credibility
49. Frank Robinson defined and coined the term
- a) Design thinking
  - b) Mind mapping
  - c) MVP
  - d) Hypothesis
50. Design thinking has
- a) Nothing to do with graphic design
  - b) Nothing to do with architectural design
  - c) Very little to do with UI and UX design
  - d) Everything to do with products that succeed.

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Question Paper Version : B

**First Semester B.Arch./B.Planning Degree Examination, Dec.2024/Jan.2025**  
**Innovation and Design Thinking**

Time: 1 hr.]

[Max. Marks: 50

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Ver B - 1 of 6

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  - Visualize
  - Structure
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  - Prototyping
  - Mind mapping
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- A wished for result that the researcher concludes the research with
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 b) Empathise > Define > Ideate > Prototype > Test  
 c) Empathise > Design > Implement > Produce > Test  
 d) Understand > Design > Ideate > Produce > Try
42. Which of the below firm is associated the most with design thinking?  
 a) Ikea                      b) Ideo                      c) Idea                      d) Ikei
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 e) a and d
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 a) To derive the power of design thinking, individual's teams and organizations must have a leap of faith about the existence of a solution.  
 b) Leap of-faith is the page in the manual of design thinking containing the core philosophy about design thinking  
 c) Design thinking Pre-supposes that some people are inherently creative and become successful in creative product development. The team should have atleast one such person.  
 d) None of these

46. A college is redesigning its website. Current students are the main users of the website. Which one of the below elements should definitely be on the website?
- a) College rules and regulations
  - b) Information on faculty members
  - c) Information about courses
  - d) Alumni details
47. At what step do you want to complete the POV point of view?
- a) Empathy
  - b) Prototype
  - c) Define
  - d) Ideate
48. Rototype should only be demonstrated and tested within the team
- a) True
  - b) False
49. When defining a problem, your problem statement should include a solution.
- a) True
  - b) False
50. No alterations are to be made in the design after testing phase.
- a) True
  - b) False

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Question Paper Version : C

## First Semester B.Arch./B.Planning Degree Examination, Dec.2024/Jan.2025 Innovation and Design Thinking

Time: 1 hr.]

[Max. Marks: 50

### INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
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- 
1. What are the steps of Design thinking process?
    - a) Understand > Draw > Ideate > Create > Test
    - b) Empathise > Define > Ideate > Prototype > Test
    - c) Empathise > Design > Implement > Produce > Test
    - d) Understand > Design > Ideate > Produce > Try
  2. Which of the below firm is associated the most with design thinking?
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    - c) Idea
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  - a) True
  - b) False
9. When defining a problem, your problem statement should include a solution.
  - a) True
  - b) False
10. No alterations are to be made in the design after testing phase.
  - a) True
  - b) False
11. The three "I" s of Design thinking DO NOT include
  - a) Interest
  - b) Implementation
  - c) Inspiration
  - d) Ideation
12. The purpose of MVP is NOT.
  - a) Be able to test a product hypothesis with maximum resources
  - b) Accelerate learning
  - c) Reduce wasted engineering hours
  - d) Get the product to early customers as soon as possible
13. Design thinking is best suited to addressing problems at the intersection of
  - a) Business and society
  - b) Logic and emotion
  - c) Human needs and economic demands
  - d) All of these
14. \_\_\_\_\_ is an iterative and incremental method of managing development and design
  - a) Waterfall model
  - b) Agile Methodology
  - c) Cyclic Methodology
  - d) All of these

15. BPM stands for  
a) Building Product Management  
b) Business Product Management  
c) Business Process Management  
d) Basic Product Management
16. \_\_\_\_\_ is the way to narrow down the thoughts to reach at the final solution.  
a) Convergent thinking  
b) Divergent thinking  
c) None of them  
d) Both of them
17. Journey Mapping is also called \_\_\_\_\_ mapping  
a) Path                                      b) Experience                                      c) Conduct                                      d) Feedback
18. Design thinking principles DO NOT include  
a) Feasibility                                      b) Viability  
c) Desirability                                      d) Credibility
19. Frank Robinson defined and coined the term  
a) Design thinking                                      b) Mind mapping  
c) MVP                                      d) Hypothesis
20. Design thinking has  
a) Nothing to do with graphic design  
b) Nothing to do with architectural design  
c) Very little to do with UI and UX design  
d) Everything to do with products that succeed.
21. Being an experimental phase, continuous iterations can take place here, which phase it refers to?  
a) Define                                      b) Empathize  
c) Prototype                                      d) None of these
22. You would interview people to gain an understanding of how they feel during the \_\_\_\_\_ stage of Design thinking.  
a) Prototype                                      b) Define  
c) Ideate                                      d) Empathize
23. During which stage would you, consult experts to learn more about the areas of concern and to gain an understanding other people experience.  
a) Prototype                                      b) Define  
c) Ideate                                      d) Empathize
24. During which stage would you write a problem statement focused on a specific need or goal  
a) Prototype                                      b) Define  
c) Ideate                                      d) Empathize
25. Which of the following is not one of the profiles of design thinkers?  
a) Empathy                                      b) Simplicity  
c) Integrative thinking                                      d) Experimentalism

26. Design Thinking Approach leads to  
 a) Technology centric designs  
 b) Marketing centric designs  
 c) People centric design  
 d) All of these
27. Which one of the following is not a phase of prototyping model?  
 a) Quick design  
 b) Prototype refinement  
 c) Coding  
 d) Engineer product
28. What is point of view (POV) in design thinking?  
 a) A report from the design team about the product  
 b) A customers opinion about interactions with your brand  
 c) A written statement of a customer's problem or need  
 d) The opinion of the manager about how to brainstorm
29. Where do the insights in point of view (POV) in design thinking come from?  
 a) Researching other products on the market  
 b) Interviewing the general public on social media  
 c) Synthesizing the data that has been gathered  
 d) Developing ideas during brainstorming
30. \_\_\_\_\_ story telling is the most compelling type.  
 a) Aural  
 b) Visual  
 c) Textual  
 d) All of these
31. The final step in the Design process is to \_\_\_\_\_.  
 a) Test  
 b) Define  
 c) Ideate  
 d) Empathize
32. Which is NOT an aspect of the Define step of design thinking?  
 a) Create a composite user to give perspective to the solution  
 b) Develop a point of view statement to state user's need  
 c) Define as many possible solutions to the problem as possible  
 d) Recognize a challenge with a "How might We" question.
33. At what step do you want to complete the POV point of view?  
 a) Empathy  
 b) Prototype  
 c) Define  
 d) Ideate
34. Collaborative teamwork is essential in design thinking for  
 a) Equal importance to all members  
 b) Solving multifaceted problems  
 c) Unbiased selection of ideas  
 d) Better failure management
35. Design Thinking process began with the following 3 steps.  
 a) Understand – Improve – Apply  
 b) Define-Ideate-Build  
 c) Study-Solve-create  
 d) Understand-Ideate-create
36. Human-centric design was re-interpreted as an acronym to mean  
 a) Hear, Create, Deliver  
 b) Hear, Create, Design  
 c) Hold, Create, Deliver  
 d) Hear, Compile, Deliver

37. The ultimate goal of design thinking is to help you design better  
 a) Services                      b) Products                      c) Experiences                      d) All of these
38. Design thinking typically is a  
 a) Non-linear process  
 b) Linear process  
 c) Cyclic process  
 d) None of these
39. Design thinking above  
 a) Waterfall model  
 b) Agile methodology  
 c) Both of these  
 d) None of these
40. Which of the following sequence is correct for waterfall methodology?  
 a) Define-Design-Develop-Test-Deploy                      b) Define-Develop-Design-Test-Deploy  
 c) Define-Design-Develop-Deploy-Test                      d) Design-Define-Develop-Test-Deploy
41. What is Design Thinking?  
 a) A method facilitated by UX designers  
 b) A process for creative problem solving  
 c) A process to teach design to non-designers  
 d) A methodology developed to discard old design methods.
42. To empathize, one has to  
 a) observe                      b) Engage                      c) Listen                      d) All of these
43. What happens in the test stage of design thinking?  
 a) You conduct a written test of your design team  
 b) You allow consumers to test a product or service  
 c) You engage in internal testing with employees  
 d) You test products designed by competitors
44. Collecting \_\_\_\_\_ is an important portion of testing a prototype in the test stage of design thinking.  
 a) Pictures                      b) Money  
 c) Feedback                      d) Emails
45. Mind maps are used to \_\_\_\_\_ ideas.  
 a) Generate                      b) Visualize  
 c) Structure                      d) All of these
46. Which of the following are NOT tools of Design Thinking?  
 a) Co-creation                      b) Prototyping                      c) Mind mapping                      d) Online Marketing
47. A hypothesis is \_\_\_\_\_  
 a) A wished for result that the researcher concludes the research with  
 b) A complicated set of sentences that pulls variables into proposed complex relationship  
 c) A Conjecture that is grounded in support background originating from secondary research  
 d) None of these

48. What is your first model/design of a product called?  
a) Draft                      b) Rough Draft                      c) Prototype                      d) Practice design
49. To Ideate is  
a) To rapidly change  
b) When you create a 3D model of your design  
c) The process for creating and sharing ideas where you use images and sketches instead of words to describe your idea  
d) When you brainstorm ideas, get feedback, create an initial design, share the design and iterate.
50. In design, where does the information used to put together a problem statement come from?  
a) The design stage  
b) The Ideate stage  
c) The Define stage  
d) The Testing stage

\* \* \* \* \*

[illegible]

**Question Paper Version : D**

**First Semester B.Arch./B.Planning Degree Examination, Dec.2024/Jan.2025**  
**Innovation and Design Thinking**

Time: 1 hr.]

[Max. Marks: 50

## INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

1. Being an experimental phase, continuous iterations can take place here, which phase it refers to?
  - a) Define
  - b) Empathize
  - c) Prototype
  - d) None of these
2. You would interview people to gain an understanding of how they feel during the \_\_\_\_ stage of Design thinking.
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  - None of them
  - Both of them
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- Path
  - Experience
  - Conduct
  - Feedback
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  - Desirability
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  - Hypothesis
30. Design thinking has
- Nothing to do with graphic design
  - Nothing to do with architectural design
  - Very little to do with UI and UX design
  - Everything to do with products that succeed.
31. What are the steps of Design thinking process?
- Understand > Draw > Ideate > Create > Test
  - Empathise > Define > Ideate > Prototype > Test
  - Empathise > Design > Implement > Produce > Test
  - Understand > Design > Ideate > Produce > Try
32. Which of the below firm is associated the most with design thinking?
- Ikea
  - Ideo
  - Idea
  - Ikei
33. Which of the below is incorrect?
- PepsiCo has turned Design thinking into its strategy
  - Air BnB avoided bankruptcy and turned profitable using Design thinking
  - Google has a 3 steps process to bring about new innovations
  - All of these are correct
34. Which of the following is right?
- Design sensibilities are a combination of design features, qualities and aesthetics
  - Empathy is to see no evil, hear no evil and speak no evil.
  - Design sensibilities are complex feelings such as amenity, pleasantness, comfort, pleasure, etc.
  - Empathy is seeing with your own eye, hearing with your own ear and feeling the pain with your own heart.
  - a and d

35. Identify the correct statement
- To derive the power of design thinking, individual's teams and organizations must have a leap of faith about the existence of a solution.
  - Leap of-faith is the page in the manual of design thinking containing the core philosophy about design thinking
  - Design thinking Pre-supposes that some people are inherently creative and become successful in creative product development. The team should have atleast one such person.
  - None of these
36. A college is redesigning its website. Current students are the main users of the website. Which one of the below elements should definitely be on the website?
- College rules and regulations
  - Information on faculty members
  - Information about courses
  - Alumni details
37. At what step do you want to complete the POV point of view?
- Empathy
  - Prototype
  - Define
  - Ideate
38. Rototype should only be demonstrated and tested within the team
- True
  - False
39. When defining a problem, your problem statement should include a solution.
- True
  - False
40. No alterations are to be made in the design after testing phase.
- True
  - False
41. The final step in the Design process is to \_\_\_\_\_
- Test
  - Define
  - Ideate
  - Empathize
42. Which is NOT an aspect of the Define step of design thinking?
- Create a composite user to give perspective to the solution
  - Develop a point of view statement to state user's need
  - Define as many possible solutions to the problem as possible
  - Recognize a challenge with a "How might We" question.
43. At what step do you want to complete the POV point of view?
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  - Define
  - Ideate
44. Collaborative teamwork is essential in design thinking for
- Equal importance to all members
  - Solving multifaceted problems
  - Unbiased selection of ideas
  - Better failure management
45. Design Thinking process began with the following 3 steps.
- Understand – Improve – Apply
  - Define-Ideate-Build
  - Study-Solve-create
  - Understand-Ideate-create

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## First/Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025

### Basic Electronics for EEE Stream

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain the VI characteristics of PN junction diode.	06	L2	CO1
	b.	Explain the operation of center tapped full wave rectifier.	08	L2	CO1
	c.	Design the zener diode regulator for the following specification. $I_L = 10 \text{ mA}$ , $V_0 = 5 \text{ V}$ , $I_{zmin} = 1 \text{ mA}$ , $I_{zmax} = 25 \text{ mA}$ and $V_i = 10 \text{ V}$ .	06	L3	CO1
OR					
Q.2	a.	Explain the halfwave rectifier with 'C' filter.	07	L2	CO1
	b.	Explain the operation of zener voltage regulator.	07	L2	CO1
	c.	With relevant circuit explain the concept of Load line analysis of a diode.	06	L2	CO1
Module – 2					
Q.3	a.	Explain common emitter input and output characteristics of a BJT.	08	L2	CO2
	b.	Explain various voltages and currents of BJT.	07	L1	CO2
	c.	With neat circuit diagram, explain DC line concept of a transistor amplifier to fix the Q point.	05	L2	CO2
OR					
Q.4	a.	Explain the construction and operation of a JFET.	08	L2	CO2
	b.	Explain the construction and operation of a enhancement MOSFET.	08	L2	CO2
	c.	Mention any four differences between BJT and JFET.	04	L1	CO2
Module – 3					
Q.5	a.	Define (i) CMRR (ii) Slew rate (iii) Input offset voltage (iv) Input offset current.	08	L1	CO2
	b.	Design a op-Amp circuit to get output voltage $V_0 = -(3V_1 + 2V_2 + 0.5V_3)$ . Assume $R_f = 10 \text{ k}\Omega$ .	06	L1	CO2
	c.	Derive the expression for the output voltage of a non-inverting amplifier.	06	L2	CO2

## OR

Q.6	a.	Mention any six ideal characteristics of an opamp.	06	L1	CO2
	b.	Derive the expression for output voltage of a differentiator circuit.	07	L2	CO2
	c.	Derive the expression for the output voltage of a three input inverting summing amplifier.	07	L2	CO2

## Module – 4

Q.7	a.	Convert : (i) $(23.25)_{10} = ( )_2 = ( )_{16}$ (ii) $(3250)_{10} = ( )_8 = ( )_{16}$	06	L2	CO3
	b.	Given the two binary numbers $X = 1010100$ and $Y = 1000011$ , perform the subtraction (i) $X - Y$ (ii) $Y - X$ , using two's complement.	08	L2	CO3
	c.	Design Half adder using basic gates.	06	L2	CO3

## OR

Q.8	a.	Prove Demorgan's theorem for two variables.	06	L2	CO3
	b.	Design full adder using basic gates.	08	L2	CO3
	c.	Express the Boolean function $F = xy + \bar{x}z$ .	06	L2	CO3

## Module – 5

Q.9	a.	Explain the operation of LVDT.	08	L2	CO4
	b.	Explain briefly block diagram of a communication.	08	L2	CO5
	c.	Mention the applications of optoelectric transducer.	04	L1	CO2

## OR

Q.10	a.	Explain the operation of photodiode transducer.	06	L2	CO4
	b.	Explain briefly Thermistor transducers.	08	L2	CO4
	c.	Define Modulation. Explain the need for modulation.	06	L1	CO5

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**CBCS 2022 – SCHEME****BCEDK103/203**

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100**

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

<b>Module – 1</b>		
<b>Q. No.</b>		<b>Marks</b>
<b>1</b>	A circular lamina of 50 mm diameter is standing with one of its points on the rim on HP and the lamina inclined at $45^\circ$ to HP. The diameter at right angles to the diameter which is passing through the point on which the lamina rests is parallel to VP. Draw its projections.	<b>20</b>
<b>Module – 2</b>		
<b>2</b>	A cone of 50 mm base diameter and 60 mm axis length rests on HP on one of its generators. Draw its projections when the axis is inclined to VP at $30^\circ$ .	<b>30</b>
<b>Module – 3</b>		
<b>3</b>	A hemisphere of diameter 50 mm is centrally resting on top of a square prism of base side 60 mm and height 30 mm such that the curved surface of hemisphere is touching the top face of the prism. Draw its isometric projections.	<b>25</b>
<b>Module - 4</b>		
<b>4</b>	A square pyramid of 40 mm base edge and 60 mm height rests with its base on HP with all its base edges equally inclined to VP. It is cut by a plane perpendicular to VP and inclined to HP at $60^\circ$ , passing through the extreme right corner of base. Draw the development of the lateral surface of the pyramid.	<b>25</b>

Examiner 1:  
Name:  
Signature:

Examiner 2:  
Name:  
Signature:

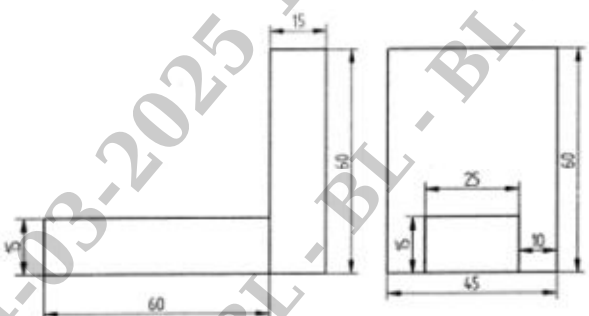
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First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025

**COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100**

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A rectangular lamina of 35 mm x 20 mm rests on HP on one of its shorter edges. The lamina is rotated about the edge on which it rests till it appears as a square in the top view. The edge on which the lamina rests being parallel to both HP and VP. Draw its projections and find its inclinations to HP and VP.	20
Module – 2		
2	A hexagonal pyramid 25 mm sides of base and 50 mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis appears to be inclined to VP at $45^\circ$ .	30
Module – 3		
3	<p>Following figure shows the front and top views of solid. Draw the isometric projection of the solid.</p> 	25
Module - 4		
4	A cube of its side 40 mm is resting on HP with its base on HP such that one of its vertical faces is inclined at $30^\circ$ to the VP. It is cut by a section plane perpendicular to VP, inclined to HP at an angle $45^\circ$ and passes through the midpoint of the axis. Draw the development of the lower lateral surface of the cube.	25

Examiner 1:  
Name:  
Signature:

Examiner 2:  
Name:  
Signature:



**CBCS 2022 – SCHEME**

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**BCEDK103/203****First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100**

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

<b>Module – 1</b>		
<b>Q. No.</b>		<b>Marks</b>
<b>1</b>	A square lamina of 40 mm side rests on one of its sides on HP. The lamina makes 30° to HP and the side on which it rests makes 45° to VP. Draw its projections.	<b>20</b>
<b>Module – 2</b>		
<b>2</b>	A cone of base diameter 40 mm and axis length 50 mm is resting on HP on a point on the circumference of its base such that its apex is at 40 mm above the HP and its top view of the axis is inclined at 60° to VP. Draw the top and front views of the solid. Also, determine the inclinations of the axis with HP when the base is nearer to the observer.	<b>30</b>
<b>Module – 3</b>		
<b>3</b>	A hemisphere diameter 70 mm is placed on the ground on its curved surface. A cone of base diameter 70 mm and height 70 mm is placed centrally on it. Draw the isometric projection of the combination.	<b>25</b>
<b>Module - 4</b>		
<b>4</b>	A rectangular prism of base 30 mm x 20 mm and height 60 mm rests on HP on its base with the longer base side inclined at 40° to VP. It is cut by a plane inclined at 45° to HP, perpendicular to VP and bisects the axis. Draw the development of lateral surface of the prism.	<b>25</b>

Examiner 1:  
Name:  
Signature:

Examiner 2:  
Name:  
Signature:

**CBCS 2022 – SCHEME****BCEDK103/203**

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours****(COMMON TO ALL BRANCHES)****Max.Marks:100****Note:** 1. Answer all four full question

2. Grid sheets may be provided for making preparatory sketches

Module - 1		
Q. No.		Marks
1	A $30^{\circ} - 60^{\circ}$ set square of 60 mm longest side is so kept such that the longest side is in HP, making an angle of $30^{\circ}$ with VP. The set square itself is inclined at $45^{\circ}$ to HP. Draw the projections of the setsquare.	20
Module - 2		
2	A square pyramid 35 mm sides of base and 60 mm axis length rests on HP on one of its slant edges. Draw the projections of the pyramid when the axis is inclined to VP at $45^{\circ}$ .	30
Module - 3		
3	A hemisphere of 40 mm diameter is supported co-axially on the vertex of a cone of base diameter 60 mm and axis length 50 mm. The flat circular face of hemisphere is facing upside. Draw the isometric projection of the combination of solids.	25
Module - 4		
4	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces equally inclined to VP. It is cut by an inclined plane $60^{\circ}$ to HP and perpendicular to VP and is passing through a point on the axis at a distance of 50 mm from the base. Obtain the development for the truncated portion of the solid.	25

Examiner 1:

Name:

Signature:

Examiner 2:

Name:

Signature:

USN

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First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025

**COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours****(COMMON TO ALL BRANCHES)****Max.Marks:100****Note:** 1. Answer all four full question

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Module - 1		
Q. No.		Marks
1	A circular lamina of 30 mm diameter rests on HP such that one of its diameters is inclined at $30^0$ to VP and $45^0$ to HP. Draw its top and front views in this position.	20
Module - 2		
2	A pentagonal pyramid 25 mm sides of base and 50 mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projection of the pyramid when the axis of the pyramid is inclined to HP at $40^0$ and appears to be inclined to VP at $45^0$ .	30
Module - 3		
3	A rectangular slab base-100 mm x 80 mm and height 30 mm has a full depth coaxial square hole side-40 mm, such that one of the sides of the square is parallel to one of the sides of the rectangle. Draw the isometric projection of the hollow block.	25
Module - 4		
4	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces equally inclined to VP. It is cut by an inclined plane $60^0$ to HP and perpendicular to VP and is passing through a point on the axis at a distance of 50 mm from the base. Obtain the development for the truncated portion of the solid.	25

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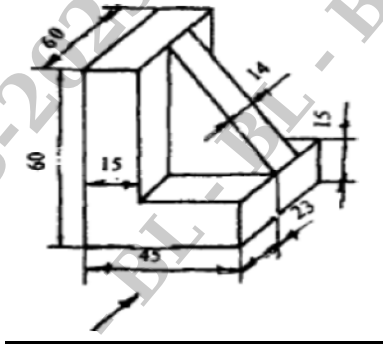
BCEDK103/203

First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025

## COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A hexagonal lamina of 30 mm side rests on one of its sides on HP. The lamina makes $30^\circ$ to HP and the side on which it rests makes $45^\circ$ to VP. Draw its projections.	20
Module – 2		
2	A cone of base diameter 40 mm and axis length 50 mm is resting on HP on a point on the circumference of its base such that its apex is at 40 mm above the HP and its top view of the axis is inclined at $60^\circ$ to VP. Draw the top and front views of the solid. Also, determine the inclinations of the axis with HP when the base is nearer to the observer.	30
Module – 3		
3	<p>Using first angle projection, draw front view looking in the direction of arrow shown, top view and right side view of the machine component as shown in figure Q(3)</p>  <p style="text-align: center;">Fig. Q(3)</p>	25

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**CBCS 2022 – SCHEME****BCEDK103/203**

<b>Module - 4</b>		
<b>4</b>	A rectangular prism of base 30 mm x 20 mm and height 60 mm rests on HP on its base with the longer base side inclined at $40^\circ$ to VP. It is cut by a plane inclined at $45^\circ$ to HP, perpendicular to VP and bisects the axis. Draw the development of lateral surface of the prism.	<b>25</b>

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**CBCS 2022 – SCHEME****BCEDK103/203**

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100**

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A pentagonal lamina of edges 25 mm is resting on HP with one of its sides such that the surface makes an angle of $60^\circ$ with HP. The edge on which it rests is inclined at $45^\circ$ to VP. Draw its projections.	20
Module – 2		
2	A square prism 35 mm sides of base and 60 mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at $40^\circ$ and appears to be inclined to VP at $45^\circ$ .	30
Module – 3		
3	The frustum of a square pyramid of base sides 40 mm and top face side 20 mm and height 60 mm rest on the center of the top of a square block of side 60 mm and height 20 mm. The base edges of the pyramid are parallel to the top edges of the square block. Draw the isometric projection of the combination of the solids.	25
Module - 4		
4	A cube of its side 40 mm is resting on HP with its base on HP such that one of its vertical faces is inclined at $30^\circ$ to the VP. It is cut by a section plane perpendicular to VP, inclined to HP at an angle $45^\circ$ and passes through the midpoint of the axis. Draw the development of the lower lateral surface of the cube.	25

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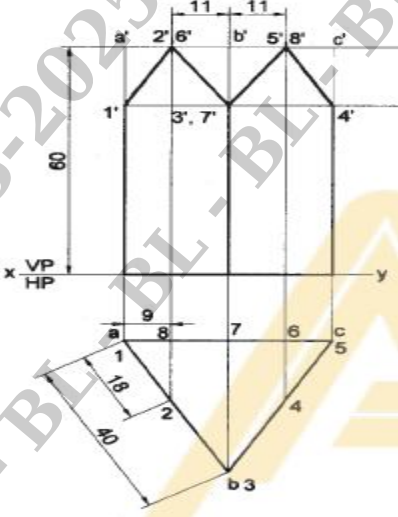
BCEDK103/203

First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025

## COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A pentagonal lamina of edges 25 mm is resting on HP with one of its corners such that the plane surface makes an angle of $60^\circ$ with HP. The two of the edges containing the corner on which the lamina rests make equal inclinations with HP. When the edge opposite to this corner makes an angle of $45^\circ$ with VP and nearer to the observer. Draw the top and front views of the plane lamina in this position.	20
Module – 2		
2	A hexagonal pyramid 25 mm sides of base and 50 mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at $45^\circ$ and to VP at $30^\circ$ .	30
Module – 3		
3	A square prism base side - 40 mm, height 50 mm is placed centrally on a rectangular slab sides - 100 mm x 60 mm and thickness - 20 mm. Draw the isometric projection of the combination.	25
Module - 4		
4	<p>A triangular prism with one of its rectangular faces parallel to VP and nearer to it cut as shown in figure Q(4). Draw the development of the retained portion of the prism which are shown in dark lines.</p>  <p style="text-align: center;"><b>Fig. Q (4)</b></p>	25

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100**

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A hexagonal lamina of sides 25 mm rests on one of its corners on HP. The corner opposite to the corner on which it rests is 35 mm above HP and the diagonal passing through the corner on which it rests is inclined at $30^{\circ}$ VP. Draw its projections. Find the inclination of the surface with HP.	20
Module – 2		
2	A cube of 30 mm sides is resting on one of its corners on HP such that one of its solid diagonals is perpendicular to VP. Draw the projections of the solid.	30
Module – 3		
3	A sphere of 60 mm is placed centrally on the top face of a hexagonal prism side 35 mm and height 50 mm. Draw the isometric projection of the combination.	25
Module - 4		
4	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces equally inclined to VP. It is cut by an inclined plane $60^{\circ}$ to HP and perpendicular to VP and is passing through a point on the axis at a distance of 50 mm from the base. Obtain the development for the truncated portion of the solid.	25

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100**

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A regular hexagonal lamina of sides 30mm is lying in such a way that one of its sides touches both the reference planes. If the lamina makes $60^\circ$ with HP, draw the projections of the lamina.	20
Module – 2		
2	A cube of 40 mm sides rests on HP on an edge which is inclined to VP at $30^\circ$ . Draw the projections when the lateral square face containing the edge on which it rests makes an angle of $50^\circ$ to HP.	30
Module – 3		
3	A cone of base diameter 30 mm and height 40 mm rests centrally over a cube of side 50 mm. Draw the isometric projection of the combination of solids.	25
Module - 4		
4	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces equally inclined to VP. It is cut by an inclined plane $60^\circ$ to HP and perpendicular to VP and is passing through a point on the axis at a distance of 50 mm from the base. Obtain the development for the truncated portion of the solid.	25

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100**

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

<b>Module – 1</b>		
<b>Q. No.</b>		<b>Marks</b>
<b>1</b>	A square lamina ABCD of 40 mm side rests on corner A, such that the diagonal AC appears to be at $45^\circ$ to VP. The two sides AD and AB containing the corner A make equal inclinations with HP. The surface of the lamina makes $30^\circ$ with HP. Draw its top and front views.	<b>20</b>
<b>Module – 2</b>		
<b>2</b>	A square pyramid 35 mm sides of base and 60 mm axis length on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis appears to be inclined to VP at $45^\circ$ .	<b>30</b>
<b>Module – 3</b>		
<b>3</b>	A regular pentagonal prism of base edge 30 mm and axis 60 mm is mounted centrally over a cylindrical block of 80 mm diameter and 25 mm thick. Draw isometric projection of the combined solids.	<b>25</b>
<b>Module - 4</b>		
<b>4</b>	A regular pentagonal prism of height 60 mm and base edges 30 mm rests with its base on HP. The vertical face closer to VP is $30^\circ$ to it. Draw the development of the truncated prism with its truncated surface inclined at $60^\circ$ to its axis and bisecting it.	<b>25</b>

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours****(COMMON TO ALL BRANCHES)****Max.Marks:100****Note:** 1. Answer all four full question

2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A circular lamina of 50 mm diameter rests on HP such that one of its diameters is inclined at $30^0$ to VP and $45^0$ to HP. Draw its top and front views in this position.	20
Module – 2		
2	A hexagonal prism 25 mm sides of base and 50 mm axis length rests on HP on one of its base edges. Draw the projections of the prism when the axis is inclined to HP at $45^0$ and appears to be inclined to VP $40^0$ .	30
Module – 3		
3	The frustum of a square pyramid of base sides 40 mm and top face side 20 mm and height 60 mm rest on the center of the top of a square block of side 60 mm and height 20 mm. The base edges of the pyramid are parallel to the top edges of the square block. Draw the isometric projection of the combination of the solids.	25
Module - 4		
4	A square prism of base side 40 mm and axis length 65 mm is resting on HP on its base with all the vertical faces being equally inclined to VP. It is cut by an inclined plane $60^0$ to HP and perpendicular to VP and is passing through the point on the axis at a distance 15 mm from the top face. Draw the development of the lower portion of the prism.	25

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100**

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A hexagonal lamina of sides 25 mm rests on one of its corners on HP. The lamina makes $45^{\circ}$ to HP and the diagonal passing through the corner on which it rests is inclined at $30^{\circ}$ to VP. Draw its projections.	20
Module – 2		
2	A pentagonal pyramid 25 mm sides of base and 50 mm axis length rests on HP on one of the corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the pyramid when the axis of the pyramid is inclined to HP at $40^{\circ}$ and to VP at $30^{\circ}$ .	30
Module – 3		
3	A sphere of 60 mm is placed centrally on the top face of a pentagonal prism side-35 mm and height 50 mm. Draw the isometric projection of the combination.	25
Module - 4		
4	Draw the development of the truncated portion of the lateral faces of a pentagonal prism of 20 mm sides of base and 50 mm axis length with one of its rectangular faces parallel and nearer to VP so as to produce a one piece development. The inclined face of the truncated prism is $30^{\circ}$ to its axis and passes through the right extreme corner of the top face of the prism.	25

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours****(COMMON TO ALL BRANCHES)****Max.Marks:100****Note:** 1. Answer all four full question

2. Grid sheets may be provided for making preparatory sketches

Module - 1		
Q. No.		Marks
1	A square lamina of 40 mm side rests on one of its sides on HP. The lamina makes $30^\circ$ to HP and the side on which it rests makes $45^\circ$ to VP. Draw its projections.	20
Module - 2		
2	A tetrahedron of 55 mm sides rests on one of its corners such that an edge containing that corner is inclined to HP at $50^\circ$ and VP at $30^\circ$ . Draw its projections.	30
Module - 3		
3	A sphere of diameter 50 mm rests centrally on top of a cube of sides 50 mm. Draw the isometric projections of the combination of solids.	25
Module - 4		
4	A square prism of base side 40 mm and axis length 65 mm is resting on HP on its base with all the vertical faces being equally inclined to VP. It is cut by an inclined plane $60^\circ$ to HP and perpendicular to VP and is passing through the point on the axis at a distance 15 mm from the top face. Draw the development of the lower portion of the prism.	25

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours****(COMMON TO ALL BRANCHES)****Max.Marks:100****Note:** 1. Answer all four full question

2. Grid sheets may be provided for making preparatory sketches

Module – 1		
Q. No.		Marks
1	A pentagonal lamina of edges 25 mm is resting on HP with one of its sides such that the surface makes an angle of $60^\circ$ with HP. The edge on which it rests is inclined at $45^\circ$ to VP. Draw its projections.	20
Module – 2		
2	A hexagonal prism 25 mm sides of base and 50 mm axis length rests on HP on one of its edges of the base. Draw the projections of the prism when the axis is inclined to HP at $45^\circ$ and appears to be inclined to VP $40^\circ$ .	30
Module – 3		
3	The frustum of a square pyramid of base sides 40 mm and top face side 20 mm and height 60 mm rest on the center of the top of a square block of side 60 mm and height 20 mm. The base edges of the pyramid are parallel to the top edges of the square block. Draw the isometric projection of the combination of the solids.	25
Module - 4		
4	A cube of its side 40 mm is resting on HP with its base on HP such that one of its vertical faces is inclined at $30^\circ$ to the VP. It is cut by a section plane perpendicular to VP, inclined to HP at an angle $45^\circ$ and passes through the midpoint of the axis. Draw the development of the lower lateral surface of the cube.	25

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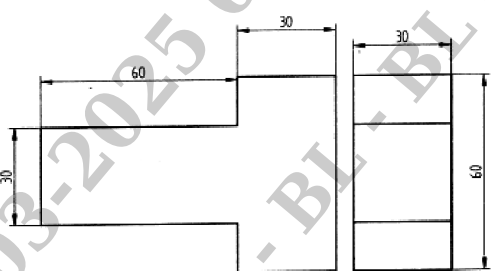
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First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025

## COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours (COMMON TO ALL BRANCHES) Max.Marks:100

- Note:** 1. Answer all four full question  
2. Grid sheets may be provided for making preparatory sketches

Module - 1		
Q. No.		Marks
1	A circular lamina of 30 mm diameter rests on HP such that the surface of the lamina is inclined at $30^\circ$ to HP and the diameter passing through the corner on which the lamina rests on HP is inclined at $45^\circ$ to VP. Draw its top and front views in this position.	20
Module - 2		
2	A pentagonal pyramid 25 mm sides of base and 50 mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projection of the pyramid when the axis of the pyramid is inclined to HP at $40^\circ$ and appears to be inclined to VP at $45^\circ$ .	30
Module - 3		
3	<p>Following figure shows the front and side views of solid. Draw the isometric projection of the solid.</p> 	25
Module - 4		
4	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces equally inclined to VP. It is cut by an inclined plane $60^\circ$ to HP and perpendicular to VP and is passing through a point on the axis at a distance of 50 mm from the base. Obtain the development for the truncated portion of the solid.	25

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**CBCS 2022 – SCHEME****BCEDK103/203**

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**First / Second Semester B.E. Degree Examination, Dec.2024/Jan.2025****COMPUTER AIDED ENGINEERING DRAWING****Time: 3 Hours****(COMMON TO ALL BRANCHES)****Max.Marks:100****Note:** 1. Answer all four full question

2. Grid sheets may be provided for making preparatory sketches

<b>Module – 1</b>		
<b>Q. No.</b>		<b>Marks</b>
<b>1</b>	A circular lamina of 50 mm diameter is standing with one of its points on the rim on HP and the lamina inclined at $45^{\circ}$ to HP. The diameter at right angles to the diameter which is passing through the point on which the lamina rests is parallel to VP. Draw its projections.	<b>20</b>
<b>Module – 2</b>		
<b>2</b>	A cone of 50 mm base diameter and 60 mm axis length rests on HP on one of its generators. Draw its projections when the axis is inclined to VP at $30^{\circ}$ .	<b>30</b>
<b>Module – 3</b>		
<b>3</b>	A hemisphere of diameter 50 mm is centrally resting on top of a square prism of base side 60 mm and height 30 mm such that the curved surface of hemisphere is touching the top face of the prism. Draw its isometric projections.	<b>25</b>
<b>Module - 4</b>		
<b>4</b>	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces equally inclined to VP. It is cut by an inclined plane $60^{\circ}$ to HP and perpendicular to VP and is passing through a point on the axis at a distance of 50 mm from the base. Obtain the development for the truncated portion of the solid.	<b>25</b>

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BCHEC102/202

**First/Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025**

## Applied Chemistry for Civil Engineering Stream

Time: 3 hrs.

Max. Marks:100

**Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.**

**2. M : Marks , L: Bloom's level , C: Course outcomes.**

**3. VTU formula Handbook is permuted.**

Module – 1			M	L	C
1	a.	Describe the classification of refractory materials based on chemical composition.	7	L2	CO1
	b.	Explain the testing of cement by EDTA method.	7	L3	CO1
	c.	Explain the properties and applications of Aluminium and its alloys.	6	L2	CO1
<b>OR</b>					
2	a.	Describe the preparation of soda-line glass. Mention the properties and applications of glass.	7	L2	CO1
	b.	Describe the manufacturing of cement by wet method.	7	L2	CO1
	c.	Explain the properties and applications of Iron and its alloys.	6	L2	CO1
Module – 2					
3	a.	What are secondary batteries? Explain the construction and working of Li-ion battery.	7	L2	CO2
	b.	Explain the following types of corrosion : i) Differential metal corrosion ii) Caustic embrittlement - stress corrosion.	7	L2	CO2
	c.	Explain the construction and working of methanol – oxygen (MeOH – O <sub>2</sub> ) fuel cell.	6	L2	CO2
<b>OR</b>					
4	a.	Define Photovoltaic cell. Explain the construction and applications of photovoltaic cell.	7	L2	CO2
	b.	Explain the following corrosion control methods : i) Galvanization ii) Sacrificial anode method.	7	L2	CO2
	c.	Explain the electrochemical corrosion of steel in concrete.	6	L2	CO2
Module – 3					
5	a.	Explain the determination of total hardness of water by EDTA method.	7	L2	CO3
	b.	In a COD experiment, 15.4 cm <sup>3</sup> of 0.04N FAS solution is required to react with 25 cm <sup>3</sup> of water sample. The blank titre value is 28.0 cm <sup>3</sup> . Calculate chemical oxygen demand of the water sample.	7	L3	CO3
	c.	Explain the synthesis of nanomaterials by sol-gel method.	6	L2	CO3
<b>1 of 2</b>					

## OR

6	a.	Explain the process of water purification by forward osmosis.	7	L2	CO3
	b.	Explain the following size dependent properties of nano materials with example : i) Surface area ii) Catalytic property.	7	L2	CO3
	c.	50 mL of water sample required 20 mL of 0.01 M EDTA solution using EBT indicator. In other experiment 50 mL of the water sample was boiled and precipitate was removed by filtration required 10 mL of 0.01M EDTA using EBT indicator. Calculate : i) Total hardness ii) Permanent hardness iii) Temporary hardness.	6	L3	CO3

## Module – 4

7	a.	Explain the synthesis, properties and applications of chloropolyvinyl chloride (CPVC).	7	L2	CO4
	b.	A polymer sample contains 50, 100, 200 and 300 molecules having molecular mass 1500, 2500, 3500 and 4500 respectively. calculate the number average and weight average molecular mass of the polymer.	7	L3	CO4
	c.	Mention the properties and applications of Geo-polymer concrete.	6	L2	CO4

## OR

8	a.	Describe the synthesis, property and applications of Nylon fibers.	7	L2	CO4
	b.	Define biodegradable polymers. Explain the synthesis and applications of polylactic acid.	7	L2	CO4
	c.	What are adhesives? List the properties and applications of epoxy resin.	6	L2	CO4

## Module – 5

9	a.	Define the following terms with example : i) Phase ii) Component iii) Degree of freedom.	7	L2	CO5
	b.	With the help of neat phase diagram, describe the lead-silver system.	7	L2	CO5
	c.	Describe the instrumentation and applications of conductometric sensors.	6	L2	CO5

## OR

10	a.	Describe the applications of conductometric sensors in estimation of acid mixtures.	7	L2	CO5
	b.	Describe the instrumentation and applications of potentiometric sensors in estimation of iron.	7	L2	CO5
	c.	Explain the determination of pH of soil sample using pH sensors.	6	L2	CO5

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BCHEE102/202

**First/Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025**

**Chemistry for EEE Stream**

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. VTU Formula Hand Book is permitted.  
3. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain the conductors, semiconductors and insulators based on band theory.	7	L2	CO1
	b.	Describe the purification of electronic grade Silicon by Float zone method.	6	L2	CO1
	c.	What are conducting polymers? Explain the mechanism of conduction in polyacetylene.	7	L2	CO1
OR					
Q.2	a.	What is electroless plating? Describe electroless plating of copper in the manufacture of double sided PCB.	6	L2	CO1
	b.	Explain the preparation, properties and commercial applications of graphene oxide.	7	L2	CO1
	c.	Define number average and weight average molecular weights. In a sample of a polymer, 20% molecules have molecular mass 15000 g/mol, 35% molecules have molecular mass 25000 g/mol and remaining molecules have molecular mass 20000 g/mol. Calculate the number average and weight average molecular weights of the polymer. Calculate PDI and comment on it.	7	L3	CO1
Module – 2					
Q.3	a.	What are PV cells? Explain the construction and working of a typical PV cell. Mention its advantages.	6	L2	CO2
	b.	What are fuel cells? Describe the construction and working of methanol-oxygen fuel cell.	7	L2	CO2
	c.	Explain the construction and working of Lithium polymer battery. Mention its applications.	7	L2	CO2
OR					
Q.4	a.	What are batteries? Describe the classification of battery with suitable examples.	6	L2	CO2
	b.	Explain the construction and working of Vanadium flow battery. Mention its applications.	7	L2	CO2

	c.	Explain the construction and working of sodium ion battery. Mention its applications.	7	L2	CO2
<b>Module – 3</b>					
Q.5	a.	Define Corrosion. Describe electrochemical theory of corrosion taking iron as an example.	7	L2	CO3
	b.	What is anodisation? Explain anodisation of aluminium and mention its applications.	7	L2	CO3
	c.	Define corrosion penetration rate. A thick brass sheet of area 400 inch <sup>2</sup> is exposed to moist air. After 2 years of period, it was found to experience a weight loss of 375 g due to corrosion. If the density of brass is 8.73 gram/cm <sup>3</sup> . Calculate CPR in mpy and mmpy units.	6	L3	CO3
<b>OR</b>					
Q.6	a.	What is differential aeration corrosion? Describe differential aeration corrosion with suitable examples.	7	L2	CO3
	b.	Describe sacrificial anodic method of corrosion control with example.	6	L2	CO3
	c.	What is e-waste? Describe the ill effects of e-waste on environment and human health.	7	L2	CO3
<b>Module – 4</b>					
Q.7	a.	Mention the properties and application of nano sensors and nano fibers.	6	L2	CO4
	b.	Describe the synthesis of nanomaterial by Sol-gel method. Mention its advantages and disadvantages.	7	L2	CO4
	c.	What are QLED's? Mention their properties and applications.	7	L2	CO4
<b>OR</b>					
Q.8	a.	What are nano materials? Explain the following size dependent properties of nano materials: (i) Surface area (ii) Conducting property (iii) Catalytic property	7	L2	CO4
	b.	What are OLED's? Mention their properties and applications.	6	L2	CO4
	c.	What are perovskites materials? Give the properties and applications of perovskites materials in optoelectronic devices.	7	L2	CO4
<b>Module – 5</b>					
Q.9	a.	What are concentration cells? The emf of a cell $\text{Ag(s)}/\text{AgNO}_3(0.02\text{M})//\text{AgNO}_3(x\text{M})/\text{Ag(s)}$ found to be 0.084 V at 298 K. Write the cell reactions and calculate the value of x.	6	L3	CO5
	b.	Describe the principle, instrumentation and application of potentiometric sensors for the estimation of Iron.	7	L3	CO5

	<b>c.</b>	What are reference electrodes? Explain the construction and working of Calomel electrode.	<b>7</b>	<b>L2</b>	<b>CO5</b>
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	Describe the principle, instrumentation and application of conductometric sensors for the estimation of weak acid.	<b>7</b>	<b>L3</b>	<b>CO5</b>
	<b>b.</b>	What are ion selective electrodes? Explain the construction and working of glass electrode.	<b>7</b>	<b>L2</b>	<b>CO5</b>
	<b>c.</b>	Explain the principle and working of colorimetric sensors for the estimation of copper.	<b>6</b>	<b>L3</b>	<b>CO5</b>

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BCHEM102/202

**First/Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025**

**Applied Chemistry for ME Stream**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.*

*2. M : Marks , L: Bloom's level , C: Course outcomes.*

*3. VTU Formula Hand Book is permitted.*

Module – 1			M	L	C
Q.1	a.	With a neat diagram, explain the construction working and application of photovoltaic cell.	7	L2	CO1
	b.	Calculate the GCV and NCV of a sample of coal 0.75g of which when burnt in a bomb calorimeter raised the temperature of water from 22.5°C to 26°C. The mass of water is 1000 g and water equivalent of calorimeter is 250g. The specific heat of water is 4.187 kJ/kg/K, latent heat of steam is 2454 kJ/kg. The coal sample contains 92% carbon , 7% H <sub>2</sub> and 1% ash.	7	L3	CO1
	c.	Explain the construction and working of Li-ion battery and mention its applications.	6	L2	CO1
OR					
Q.2	a.	Explain the determination of calorific value of solid / liquid fuel using bomb calorimeter.	7	L1	CO1
	b.	Explain the construction and working of Methanol – Oxygen fuel cell.	7	L1	CO1
	c.	Interpret a suitable method for the synthesis of biodiesel and mention advantages and disadvantages of biodiesel.	6	L1	CO1
Module – 2					
Q.3	a.	Explain the electrochemical theory of corrosion with suitable reactions by taking iron as example.	7	L2	CO2
	b.	Calculate the CPR in both mpy and mmpy for a thick steel sheet of area 100 inch <sup>2</sup> which experiences a weight loss of 400 g after one year. (Density of steel = 7.9 g/cm <sup>3</sup> ).	7	L3	CO2
	c.	What is metal finishing? Mention any five technological importance of metal finishing.	6	L1	CO2
OR					
Q.4	a.	Describe anodization and mention any two applications.	7	L1	CO2
	b.	What is Electroless plating? Explain the electroless plating of Nickel.	7	L2	CO2
	c.	Explain the following with suitable example : i) Differential metal corrosion    ii) Differential aeration corrosion.	6	L1	CO2

Module – 3					
Q.5	a.	Explain the synthesis of CPVC and mention its properties and applications.	7	L1	CO3
	b.	In a sample of polymer , 25% molecules have molecular mass 15000g/mol , 40% molecules have molecular mass 25000 g/mol and remaining molecule have molecular mass 20000 g/mol. Calculate the number average and weight average molecular weight of the polymer.	7	L3	CO3
	c.	Explain the synthesis of Teflon and mention its applications.	6	L2	CO3
OR					
Q.6	a.	Define and explain the condensation polymerization with suitable example.	7	L1	CO3
	b.	Explain the synthesis of Kevlar fibers and mention the properties and applications.	7	L2	CO3
	c.	Write any three properties and industrial applications of : i) metal matrix polymer composites ii) Lubricants.	6	L1	CO3
Module – 4					
Q.7	a.	Explain the application of potentiometric sensor in the estimation of iron.	7	L1	CO4
	b.	Explain the principle and working of glass electrode with neat diagram.	7	L2	CO4
	c.	Define Phase , Components and Degree of freedom.	6	L1	CO4
OR					
Q.8	a.	Explain the application of colorimetric sensor in the estimation of copper.	7	L1	CO4
	b.	Discuss the application of phase rule to lead – silver system.	7	L1	CO4
	c.	Explain the application of glass electrode in the determination of $p^H$ of beverages.	6	L2	CO4
Module – 5					
Q.9	a.	What are alloys? Mention the composition properties and application of stainless steel.	7	L1	CO5
	b.	Sol gel method is suitable for the preparation of nanomaterials. Justify with suitable example.	7	L1	CO5
	c.	Explain any two size dependent properties of nanomaterials.	6	L2	CO5
OR					
Q.10	a.	Mention the composition , properties and application of brass.	7	L1	CO5
	b.	What are Ceramics? Mention the properties and applications of Perovskites.	7	L1	CO5
	c.	Write a brief note on : i) CNTs ii) Graphene.	6	L1	CO5

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BCHES102/202

**First/Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025**

**Applied Chemistry for CSE Stream**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.*

*2. VTU Formula Hand Book is permitted.*

*3. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain the working principle of conductometric sensors (Conductometry) and applied sensors (Colorimetry).	7	L2	CO1
	b.	Write a note on Disposable sensors? Explain its advantages over classical sensors.	7	L3	CO2
	c.	Describe the construction, working and applications of Lithium-ion battery and mention its applications.	6	L4	CO3
OR					
Q.2	a.	What are Electrochemical Sensors? Explain its applications in the measurement of Dissolved Oxygen (DO).	7	L3	CO2
	b.	What are Transducers? Explain the applications of Electrochemical gas sensors in sensing SO <sub>x</sub> and NO <sub>x</sub> .	7	L3	CO5
	c.	Describe the construction, working and applications of Sodium-ion battery and mention its applications.	6	L4	CO3
Module – 2					
Q.3	a.	Explain the types of organic memory devices by taking P-type and n-type semiconductor materials.	7	L2	CO2
	b.	What are Memory Devices? Explain the classification of electronic memory devices with examples.	7	L1	CO2
	c.	Explain any four properties of polythiophenes (P3HT) suitable for optoelectronic devices.	6	L2	CO4
OR					
Q.4	a.	Mention any four properties and applications of QLED.	7	L2	CO3
	b.	Mention any four properties and applications of LCD-displays.	7	L2	CO3
	c.	What are nanomaterials? Explain any four properties of poly (9-vinyl Carbazole) (PVK) suitable for optoelectronic devices.	6	L2	CO4
Module – 3					
Q.5	a.	Define metallic corrosion. Describe the electrochemical theory of corrosion by taking iron as an example.	7	L3	CO2



	<b>b.</b>	Describe galvanizing and mention its applications.	7	L2	CO3
	<b>c.</b>	Define electrolyte concentration cell. A galvanic cell is obtained by combining two copper electrodes of concentrations 0.1 and 0.5 M immersed in copper sulphate solution at 25 °C. Give the cell reaction and calculate EMF of the cell.	6	L3	CO4
<b>OR</b>					
<b>Q.6</b>	<b>a.</b>	Explain the construction, working and applications of Calomel Electrode.	7	L2	CO2
	<b>b.</b>	What is CPR? A thick sheet of area 600 cm <sup>2</sup> (93 inch <sup>2</sup> ) is exposed to air near the ocean. After a 6 months it was found to experience a weight loss of 360 g due to corrosion, if the density of the steel is 7.9 g/cm <sup>3</sup> . Calculate the corrosion penetration rate in mpy and mmpy (Given K = 534 in mpy and 87.6 mm/y)	7	L3	CO4
	<b>c.</b>	Explain : (i) Differential metal corrosion (ii) Water line corrosion.	6	L2	CO2
<b>Module – 4</b>					
<b>Q.7</b>	<b>a.</b>	In a sample of a polymer, 150 molecules have the molecular mass 100 g/mol, 200 molecules have the molecular mass 1000 g/mol, 350 molecules have the molecular mass 10,000 g/mol. Determine number average and weight average molecular mass. Find the Index of Polydispersity.	7	L3	CO4
	<b>b.</b>	Explain the preparation, properties and commercial applications of Kevlar.	7	L2	CO2
	<b>c.</b>	Explain the generation of hydrogen of Alkaline Water Electrolysis.	6	L2	CO3
<b>OR</b>					
<b>Q.8</b>	<b>a.</b>	Explain the synthesis of polyacetylene and mention its applications.	7	L2	CO2
	<b>b.</b>	Explain the generation of hydrogen by proton exchange membrane Electrolysis of water.	7	L2	CO3
	<b>c.</b>	Describe the construction and working of photovoltaic cells.	6	L2	CO2
<b>Module – 5</b>					
<b>Q.9</b>	<b>a.</b>	Describe the sources and composition of e-waste materials.	7	L2	CO1
	<b>b.</b>	Explain the ill effects of toxic materials used in manufacturing electrical and electronic products.	7	L2	CO1
	<b>c.</b>	Discuss the extraction of gold from e-waste.	6	L2	CO3
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	What are e-wastes? Explain the need for e-waste management.	7	L2	CO1
	<b>b.</b>	Write a brief note on role of stakeholders for example : Producers, Consumers, Recyclers and Statutory bodies.	7	L2	CO1
	<b>c.</b>	Explain the pyrometallurgy and direct recycling methods.	6	L2	CO2

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BEMEM103/203

**First/Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025**

## Elements of Mechanical Engineering

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain the role of Mechanical Engineering in industries and society.	10	L2	CO1
	b.	Explain the formation of steam at constant pressure with T– h diagram.	10	L2	CO1
OR					
Q.2	a.	Explain with a neat sketch, construction and working of Nuclear Power Plant.	10	L2	CO1
	b.	Explain the following : i) Latent treat of steam    ii) Dryness fraction iii) Web steam    iv) Dry steam    v) Super heated steam.	10	L2	CO1
Module – 2					
Q.3	a.	Explain with a neat sketch, the following drilling : i) Boring    ii) Reaming    iii) Tapping    iv) Counter sinking v) Counter boring.	10	L2	CO2
	b.	Explain with a neat sketch, the components of CNC. List the advantages and applications of CNC.	10	L2	CO2
OR					
Q.4	a.	Explain the working and types of milling machine.	6	L2	CO2
	b.	Explain with a neat sketch, the following milling operations : i) Plane milling    ii) End milling    iii) Slot milling.	6	L2	CO2
	c.	Explain with a neat sketch the following lathe operations : i) Turning    ii) Facing    iii) Knurling    iv) Thread cutting.	8	L2	CO2
Module – 3					
Q.5	a.	Explain the working of 4 – stroke Diesel engine with neat sketch.	10	L2	CO2
	b.	Explain the desirable properties of a refrigerants.	10	L2	CO2
OR					
Q.6	a.	Explain the working of VCR refrigeration system with neat figure.	10	L2	CO2
	b.	Explain the following : i) Indicated power    ii) Brake power iii) Mechanical efficiency    iv) Thermal efficiency v) Specific fuel consumption.	10	L2	CO2

<b>Module – 4</b>					
<b>Q.7</b>	<b>a.</b>	Briefly explain the types of gear drives with neat sketch.	<b>10</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	Explain with a neat sketch, gas welding process. List the advantages and disadvantages.	<b>10</b>	<b>L2</b>	<b>CO3</b>
<b>OR</b>					
<b>Q.8</b>	<b>a.</b>	Define Soldering , brazing and welding. Explain the differences between soldering , brazing and welding.	<b>10</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	Explain with a neat sketch, V – belt drive. List the advantages and disadvantages.	<b>10</b>	<b>L2</b>	<b>CO3</b>
<b>Module – 5</b>					
<b>Q.9</b>	<b>a.</b>	Briefly explain Electric and Hybrid vehicles. List the advantages and disadvantages.	<b>10</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	Explain the applications of Robots in material handling , processing and assembly and inspection.	<b>10</b>	<b>L2</b>	<b>CO3</b>
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	Define Mechatronics. Briefly explain open loop and closed – loop mechatronic systems.	<b>10</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	Define a Robot. Explain Robot anatomy with a neat sketch.	<b>10</b>	<b>L2</b>	<b>CO3</b>

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Question Paper Version : A

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,  
Dec.2024/Jan.2025**

## **Communicative English**

Time: 1 hr.]

[Max. Marks: 50

### **INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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1. When individuals have different frames of reference due to their unique experience, it can create :
    - a) Physical barriers
    - b) Cultural barriers
    - c) Semantic barriers
    - d) Perceptual barriers
  2. Which of the following is NOT a barrier to effective communication?
    - a) Cultural differences
    - b) Active listening
    - c) Language barriers
    - d) Emotional barriers
  3. In the context of organizational communication, which of the following is an example of a structural barrier?
    - a) Language barriers among employees
    - b) Differences in communication styles
    - c) Hierarchical organizational structure
    - d) Lack of feedback from supervisors
  4. Which of the following is NOT a step in the process of active listening?
    - a) Interrupting the speaker frequently
    - b) Providing feedback
    - c) Asking clarifying questions
    - d) Paraphrasing
  5. What is the significance of feedback in communication?
    - a) It ensures that the speaker talks more than the listener.
    - b) It provides an opportunity for clarification and improvement
    - c) It is unnecessary in effective communication
    - d) It should only be given by superiors to subordinates.

6. In the context of organizational communication, what does “inter” communication refer to ?
  - a) Communication between individuals within the same department
  - b) Communication between individuals from different departments or teams
  - c) Communication between employees and management
  - d) Communication between the organization and its external stakeholders.
7. Which of the following is an example of intercommunication?
  - a) A team meeting discussing project updates
  - b) A manager providing feedback to an employee
  - c) An employee preparing a report for their supervisor
  - d) An individual writing a memo to themselves for personal reminders.
8. What is the primary purpose of intra Communication?
  - a) To facilitate collaboration between departments
  - b) To disseminate information within a team or department
  - c) To negotiate with external stakeholders
  - d) To manage conflicts between individuals.
9. Which of the following is an example of a physical barrier to communication?
  - a) Language differences
  - b) Cultural differences
  - c) Noise in the environment
  - d) Lack of empathy
10. Psychological barriers to communication may include :
  - a) Language barriers
  - b) Noise pollution
  - c) Emotional bias or prejudice
  - d) Misinterpretation of messages
11. What is phonetics?
  - a) The study of speech sounds and their physiological production.
  - b) The study of written language
  - c) The study of syntax and grammar
  - d) The study of semantics
12. Which of the following is a key aspect of effective communication in a team setting?
  - a) Dominating conversations
  - b) Ignoring team members opinions
  - c) Active participation and collaboration
  - d) Avoiding conflict resolution
13. What is the International Phonetic Alphabet (IPA) used for?
  - a) Writing in different languages
  - b) Transcribing speech sounds
  - c) Encoding written texts
  - d) Creating new words
14. What is the primary difference between vowels and consonants?
  - a) Vowels are voiced, consonants are voiceless
  - b) Vowels involve airflow without significant constriction, while consonants involve constriction.
  - c) Vowels are nasal sounds, consonants are oral sounds
  - d) Vowels are always at the beginning of words, consonants are always at the end.
15. Which of the following is a consonant?
  - a) [i]
  - b) [a]
  - c) [p]
  - d) [e]

16. How many Consonants sounds are there in English?  
a) 5                                      b) 10                                      c) 24                                      d) 14
17. Which of the following is a voiced consonant?  
a) [p]                                      b) [s]                                      c) [v]                                      d) [f]
18. What is the term for the study of the physical properties of speech sounds?  
a) Phonology                              b) Phonetics                              c) Morphology                              d) Syntax
19. Which of the following is an example of a diphthong?  
a) [p]                                      b) [ae]                                      c) [ai]                                      d) [m]
20. What part of speech is used to show the relationship between a noun (or pronoun) and other words in a sentence?  
a) Conjunction                              b) Verb                                      c) Preposition                              d) Interjection
21. Which of the following sentence is correctly punctuated?  
a) I went to the store, and bought apples, bananas, and oranges  
b) I went to the store and bought apples, bananas and oranges  
c) I went to the store; and bought apples, bananas, and oranges  
d) I went to the store and bought apples, bananas, and oranges
22. Which article is used before a consonant sound?  
a) A                                      b) An                                      c) The                                      d) None of these
23. In the sentence "I need \_\_\_\_\_ pen to write", should the blank be filled with an article?  
a) A                                      b) An                                      c) The                                      d) None of these
24. Which of the following is a part of speech used to express strong emotions?  
a) Adverb                                      b) Pronoun                                      c) Interjection                                      d) Conjunction
25. "The cat is \_\_\_\_\_ the table," which preposition should fill in the blank?  
a) At                                      b) In                                      c) On                                      d) With
26. Which of the following is a correct use of a preposition?  
a) "I am in the home".                                      b) "She walked at the park".  
c) "He sat on the chair".                                      d) None of these
27. Which word contains a prefix?  
a) Happy                                      b) Cooked                                      c) Revisit                                      d) Quickly
28. Which sentence uses correct capitalization?  
a) The chief executive officer was interviewed for the magazine  
b) The Chief Executive Officer was interviewed for the magazine  
c) The chief executive officer was interviewed for the Magazine  
d) The chief Executive Officer was interviewed for the Magazine.
29. What is the term for the consonant sound produced by a complete closure in the vocal tract followed by a sudden release of air?  
a) Fricative                                      b) Approximant                                      c) Plosive                                      d) Nasal

30. Which of the following is a part of speech that describes a person , place , thing or idea?  
a) Verb                      b) Adjective                      c) Noun                      d) Conjunction
31. What part of speech is used to join words, phrases or clauses?  
a) Preposition                      b) Conjunction                      c) Adverb                      d) Pronoun
32. What is the term for the fear of heights?  
a) Acrophobia                      b) Agoraphobia                      c) Claustrophobia                      d) Hydrophobia
33. What is the term for a person who is obsessed with their own power?  
a) Egoist                      b) Narcissist                      c) Altruist                      d) Introvert
34. Which of the following words is a synonym for “ephemeral”?  
a) Eternal                      b) Temporary                      c) Continuous                      d) Enduring
35. Which sentence demonstrates correct usage of the word “affect”?  
a) The weather will effect the crops                      b) The weather will affect the crops  
c) The weather will effect the crops                      d) The weather will affect on the crops
36. What is the antonym of the word “exquisite”?  
a) Beautiful                      b) Delicate                      c) Common                      d) Refined
37. Which word is the odd one out in the following group?  
a) Zealous                      b) Enthusiastic                      c) Apathetic                      d) Eager
38. What is the meaning of the term “vernacular”?  
a) Formal language                      b) Slang or informal language  
c) Foreign language                      d) Technical language
39. What is the question tag for the statement : “He didn’t eat lunch”?  
a) He didn’t eat lunch, did he?                      b) He didn’t eat lunch, does he?  
c) He didn’t eat lunch, hasn’t he?                      d) He didn’t eat lunch, isn’t he?
40. What is the question tag for the statement : “He doesn’t speak French”?  
a) He doesn’t speak French, isn’t he?                      b) He doesn’t speak French, does he?  
c) He doesn’t speak French, hasn’t he?                      d) He doesn’t speak French, can’t he?
41. Which of the following is a correct question tag for the statement : “It’s raining outside”?  
a) It’s raining outside, does it?                      b) It’s raining outside, isn’t it?  
c) It’s raining outside, can it?                      d) It’s raining outside, won’t it?
42. In the sentence “She will go to the market tomorrow,” which tense is used?  
a) Present tense                      b) Past tense  
c) Future tense                      d) Present perfect tense
43. Which of the following sentence uses the present perfect tense correctly?  
a) He is going to the gym tomorrow  
b) She has finished her homework  
c) They will visit their grandparents last weekend  
d) We were playing football yesterday

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<b>Question Paper Version : B</b>
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**First/Second Semester B.E./B.Tech/B.Design Degree Examination,  
Dec.2024/Jan.2025**

## Communicative English

Time: 1 hr.]

[Max. Marks: 50

### INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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1. Which of the following is a correct question tag for the statement : “It’s raining outside”?  
 a) It’s raining outside, does it?                      b) It’s raining outside, isn’t it?  
 c) It’s raining outside, can it?                        d) It’s raining outside, won’t it?
  2. In the sentence “She will go to the market tomorrow,” which tense is used?  
 a) Present tense    b) Past tense  
 c) Future tense    d) Present perfect tense
  3. Which of the following sentence uses the present perfect tense correctly?  
 a) He is going to the gym tomorrow  
 b) She has finished her homework  
 c) They will visit their grandparents last weekend  
 d) We were playing football yesterday
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 c) Future tense    d) Past perfect continuous tense
  5. In the sentence “She is taller than him, “What part of speech is “than”?”  
 a) Preposition                      b) Conjunction                      c) Adjective                      d) Pronoun
  6. What is the superlative form of the adjective “good”?  
 a) Better                      b) Best                      c) Goodest                      d) Gooder



20. What is the question tag for the statement : “He doesn’t speak French”?
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- a) Vowels are voiced, consonants are voiceless  
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25. Which of the following is a consonant?
- a) [i]      b) [a]      c) [p]      d) [e]
26. How many Consonants sounds are there in English?
- a) 5      b) 10      c) 24      d) 14
27. Which of the following is a voiced consonant?
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28. What is the term for the study of the physical properties of speech sounds?
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- a) [p]      b) [ae]      c) [ai]      d) [m]
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- a) Cultural differences      b) Active listening  
c) Language barriers      d) Emotional barriers

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  - Hierarchical organizational structure
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42. Which article is used before a consonant sound?
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  - An
  - The
  - None of these

43. In the sentence "I need \_\_\_\_\_ pen to write", should the blank be filled with an article?  
a) A                                      b) An                                      c) The                                      d) None of these
44. Which of the following is a part of speech used to express strong emotions?  
a) Adverb                                      b) Pronoun                                      c) Interjection                                      d) Conjunction
45. "The cat is \_\_\_\_\_ the table," which preposition should fill in the blank?  
a) At                                      b) In                                      c) On                                      d) With
46. Which of the following is a correct use of a preposition?  
a) "I am in the home".                                      b) "She walked at the park".  
c) "He sat on the chair".                                      d) None of these
47. Which work contains a prefix?  
a) Happy                                      b) Cooked                                      c) Revisit                                      d) Quickly
48. Which sentence uses correct capitalization?  
a) The chief executive officer was interviewed for the magazine  
b) The Chief Executive Officer was interviewed for the magazine  
c) The chief executive officer was interviewed for the Magazine  
d) The chief Executive Officer was interviewed for the Magazine.
49. What is the term for the consonant sound produced by a complete closure in the vocal tract followed by a sudden release of air?  
a) Fricative                                      b) Approximant                                      c) Plosive                                      d) Nasal
50. Which of the following is a part of speech that describes a person, place, thing or idea?  
a) Verb                                      b) Adjective                                      c) Noun                                      d) Conjunction

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<b>Question Paper Version : C</b>
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**First/Second Semester B.E./B.Tech/B.Design Degree Examination,  
Dec.2024/Jan.2025**

## Communicative English

Time: 1 hr.]

[Max. Marks: 50

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  - c) Common
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<b>Question Paper Version : D</b>
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**First/Second Semester B.E./B.Tech/B.Design Degree Examination,  
Dec.2024/Jan.2025**

## Communicative English

Time: 1 hr.]

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 a) Vowels are voiced, consonants are voiceless  
 b) Vowels involve airflow without significant constriction, while consonants involve constriction.  
 c) Vowels are nasal sounds, consonants are oral sounds  
 d) Vowels are always at the beginning of words, consonants are always at the end.
45. Which of the following is a consonant?  
 a) [i]                      b) [a]                      c) [p]                      d) [e]
46. How many Consonants sounds are there in English?  
 a) 5                      b) 10                      c) 24                      d) 14
47. Which of the following is a voiced consonant?  
 a) [p]                      b) [s]                      c) [v]                      d) [f]
48. What is the term for the study of the physical properties of speech sounds?  
 a) Phonology              b) Phonetics              c) Morphology              d) Syntax
49. Which of the following is an example of a diphthong?  
 a) [p]                      b) [ae]                      c) [ai]                      d) [m]
50. What part of speech is used to show the relationship between a noun (or pronoun) and other words in a sentence?  
 a) Conjunction              b) Verb                      c) Preposition              d) Interjection

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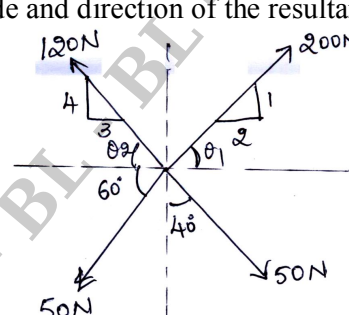
BESCK104A/BESCKA104

## First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Introduction to Civil Engineering

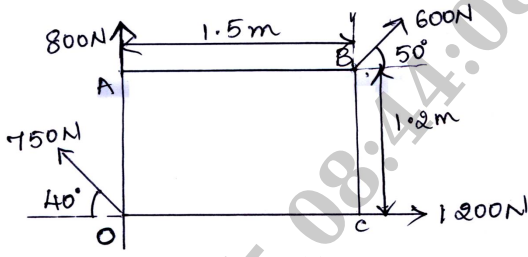
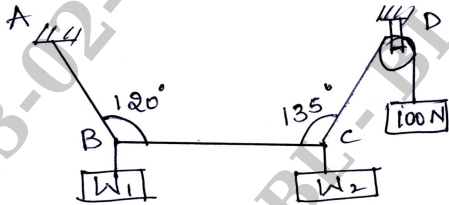
Time: 3 hrs.

Max. Marks: 100

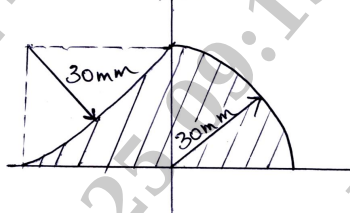
- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. VTU Formula Hand Book is permitted.  
3. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	List out different branches of civil engineering and explain any 4 branches briefly.	10	L1	CO1
	b.	What are cement and Mortor? What are their uses?	10	L1	CO1
OR					
Q.2	a.	Explain briefly the structural elements of a building.	10	L1	CO1
	b.	What is RCC? Explain its advantages and disadvantages.	10	L1	CO1
Module – 2					
Q.3	a.	Write a short note on: i) Smart city concept ii) Clean city concept.	10	L1	CO2
	b.	Why landfills are important? Explain the advantages and disadvantages of land fills.	10	L1	CO2
OR					
Q.4	a.	Explain the importance of water supply and sanitary system.	10	L1	CO2
	b.	What is solid waste management? Explain the sources and origin of solid wastes.	10	L1	CO2
Module – 3					
Q.5	a.	Explain the principles of superposition and transmissibility of force system.	5	L2	CO3
	b.	State and prove Varignon’s theorem of moments.	5	L2	CO3
	c.	Compute the magnitude and direction of the resultant force in Fig.Q.5(c).  Fig.Q.5(c)	10	L3	CO3
1 of 3					

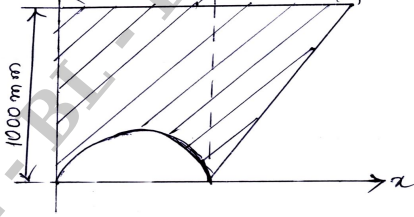
OR

Q.6	a.	Find the magnitude, direction and point of application of the resultant force with respect to point O in Fig.Q.6(a).	12	L3	CO3
		 <p>Fig.Q.6(a)</p>	8	L3	CO3
	b.	In the Fig.Q.6(b) the portion BC of the string is horizontal and pulley is frictionless. Determine the tension in different parts of the string. Also find $w_1$ and $w_2$ .			
		 <p>Fig.Q.6(b)</p>			

Module – 4

Q.7	a.	Define centroid and centre of gravity.	4	L1	CO4
	b.	Find the centroid of a semicircle using first principle.	6	L3	CO4
	c.	Locate the centroid of a shaded area shown in Fig.Q.7(c).	10	L3	CO4
		 <p>Fig.Q.7(c)</p>			

OR

Q.8	a.	Find the centroid of a triangle from first principle.	8	L3	CO4
	b.	Determine the centroid of a shaded area shown in Fig.Q.8(b).	12	L3	CO4
		 <p>Fig.Q.8(b)</p>			

Module – 5

Q.9	a.	State and prove parallel and perpendicular axis theorem.	10	L2	CO5
	b.	Determine the moment of inertia and radius of gyration of the shaded area shown in Fig.Q.9(b) about the base AB.	10	L3	CO5

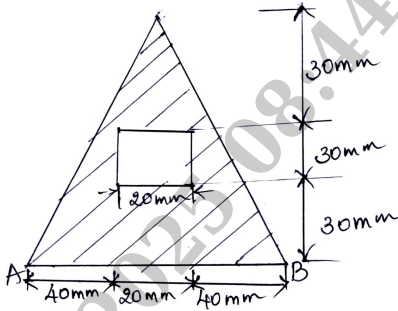


Fig.Q.9(b)

OR

Q.10	a.	Derive an expression for moment of inertia of a circle along its centroidal axis ( $I_{XX}$ and $I_{YY}$ ).	10	L2	CO5
	b.	Determine the polar radius of gyration about the horizontal centroidal axis for the Fig.Q.10(b).	10	L3	CO5

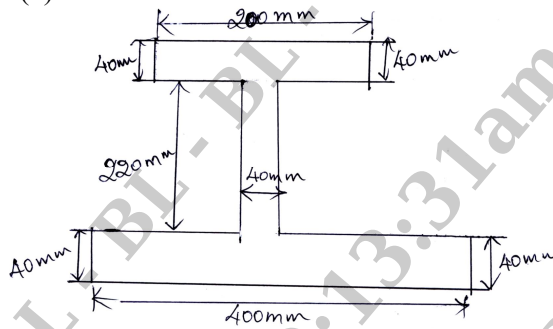


Fig.Q.10(b)

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BESCK104B

## First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Introduction to Electrical Engineering

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	With neat single line diagram, explain the various steps of electrical power transmission and distribution system.	8	L2	CO1
	b.	State and explain Kirchoff's current and voltage law.	6	L2	CO1
	c.	A resistance R is connected in series with a parallel circuit comprising of two resistance $12\Omega$ and $8\Omega$ . The total power in the circuit is 70W, when the applied voltage is 20V. Calculate R.	6	L3	CO1
<b>OR</b>					
Q.2	a.	With block diagram, explain Hydel Power generation.	6	L2	CO1
	b.	State and explain Ohm's law with its limitation.	6	L3	CO1
	c.	For the circuit shown in Fig. Q2(c), find the current in $2\Omega$ resistor.	8	L3	CO1
<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 20px;">Fig. Q2(c)</div> </div>					
Module – 2					
Q.3	a.	Define the following terms applied to alternating current wave : i) RMS value      ii) Average value      iii) Form factor iv) Peak factor      v) Phase      vi) Phase difference.	6	L3	CO2
	b.	Show that the current through purely capacitive circuit leads the applied voltage by $90^\circ$ and average power consumed is zero. Draw the wave shapes of current voltage and power.	8	L3	CO2
	c.	An Inductive coil takes a current of 10A from a supply of 100V, 50Hz and lags the voltage of $30^\circ$ . Calculate i) Parameters of the circuit ii) Power factor      iii) Active reactive and apparent power.	6	L2	CO2
<b>OR</b>					
Q.4	a.	Explain the generation of three phase A.C. and list the advantage.	6	L2	CO2

	b.	A circuit consists of a resistance of $20\Omega$ and inductance of $0.05H$ , connected in series. A single phase supply of $230V$ , $50Hz$ is applied across the circuit. Find i) Impedance ii) Current iii) Power factor iv) Power consumed by the circuit v) Voltage drop across R & L.	8	L3	CO2
	c.	Three coils having resistance of $10\Omega$ and inductance of $0.02H$ are connected in star across $440V$ , $50Hz$ , 3 – $\phi$ supply. Calculate the line current, p.f and total power consumed.	6	L3	CO2
<b>Module – 3</b>					
Q.5	a.	Derive E.M.F equation of the DC generator.	6	L3	CO3
	b.	Explain the characteristics of a D.C. shunt motor.	7	L2	CO3
	c.	A 4 pole, 1500 rpm, D.C generator has a lap wound armature having 32 slots and 8 conductors per slot. If the flux per pole is $0.04$ wb. Calculate the emf induced in the armature. What would be the emf induced if the winding is wave connected.	7	L3	CO3
<b>OR</b>					
Q.6	a.	Derive Torque equation of the D.C motor.	6	L3	CO3
	b.	Explain the various methods used to control the speed of DC series motor.	8	L2	CO3
	c.	A 4 – pole D.C shunt motor takes $25A$ from a $250V$ supply. The armature and field resistances are $0.5\Omega$ and $12\Omega$ respectively. The wave wound armature has 30 slots and each slot containing 10 conductors, if the flux per pole is $0.02$ wb. Calculate i) speed ii) torque developed iii) power developed.	6	L3	CO3
<b>Module – 4</b>					
Q.7	a.	Derive the emf equation of a transformer and hence obtain the voltage and current transformation ratios.	8	L2	CO4
	b.	With neat diagram, explain the types of 3 – $\phi$ induction motor.	7	L2	CO4
	c.	A transformer is rated at $100KVA$ . At full load its copper loss is $1200W$ and its iron loss is $960W$ . Calculate the following : i) the efficiency at full load, VPF ii) the efficiency at half load, $0.8$ pf. iii) the load KVA at which maximum efficiency will occur. iv) maximum efficiency at $0.85$ p.f.	5	L3	CO4
<b>OR</b>					
Q.8	a.	Explain the various losses in transformer, how to minimize them?	8	L2	CO4
	b.	With diagrams, explain the concept of rotating magnetic field.	8	L2	CO4
	c.	A three phase induction motor with 4 pole is supplied from the alternator having 6 poles running at $1000$ rpm. Calculate Synchronous speed, rotor speed of the induction motor when slip is $0.04$ and frequency of the rotor emf when the speed is $600$ rpm.	4	L3	CO4



Module – 5					
Q.9	a.	With neat circuit diagram and switching table explain two way and three way control of load.	8	L2	CO5
	b.	Explain working principle of fuse and miniature circuit breaker.	7	L2	CO5
	c.	What is earthing? With neat diagram, explain any one type of earthing.	5	L2	CO5
OR					
Q.10	a.	What is Electric shock? Give the list of preventive measures against shock.	6	L2	CO5
	b.	What are the desirable characteristics of a tariff and explain two part tariff.	6	L2	CO5
	c.	List out the power rating of home hold appliances including air conditioners , PCs, laptops , printers etc. Find the total power consumed.	8	L3	CO5

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BESCK104C

## First Semester B.E/B.Tech. Degree Examination, Dec.2024/Jan.2025 Introduction to Electronics and Communication

Time: 3 hrs.

Max. Marks:100

**Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.  
3.VTU formula Handbook is permitted.**

Module – 1			M	L	C
1	a.	With a neat block diagram, explain the DC power supply.	6	L2	CO1
	b.	With a circuit diagram explain the working of voltage doubler.	6	L2	CO1
	c.	With circuit diagram and waveforms, explain the working of Bi – Phase full wave rectifier.	8	L2	CO1
<b>OR</b>					
2	a.	Draw the circuit of Zener diode voltage regulator and explain the working.	6	L2	CO1
	b.	What is multistage amplifier? Show that the overall gain of multistage amplifier is product of individual stage gains.	6	L3	CO1
	c.	What are the advantages of negative feedback? Derive an expression for overall voltage gain of negative feedback amplifier.	8	L3	CO1
<b>Module – 2</b>					
3	a.	State and explain conditions for oscillations (Barkhausen criterion).	6	L1	CO2
	b.	With circuit diagram, explain the working Wein Bridge Oscillator.	6	L2	CO2
	c.	With circuit diagram and waveforms, explain the working of single stage astable multivibrator circuit using op-amp.	8	L2	CO2
<b>OR</b>					
4	a.	List the ideal characteristics of op-Amp.	6	L1	CO2
	b.	Explain the following parameters of the op-Amp. i) Slew Rate ii) Input offset voltage iii) CMRR.	6	L1	CO2
	c.	How op-Amp can be used as an integrator with necessary output equation and waveforms.	8	L2	CO2
<b>Module – 3</b>					
5	a.	i) Convert $(256.45)_{10} = (?)_2 = (?)_{16}$ ii) Find x if $(211)_x = (152)_8$ iii) Convert $(357.14)_8 = (?)_{16}$ .	8	L3	CO3
	b.	Subtract $(1010.11)_2$ from $(1001.10)_2$ using 1's and 2's complement methods.	6	L3	CO3
	c.	State and prove DeMorgan's theorems for 3 input variables.	6	L2	CO3
<b>1 of 2</b>					

OR

6	a.	Simplify the following Boolean expressions : i) $f_1 = \bar{x}\bar{y} + xy + \bar{x}y$ ii) $f_2 = x \oplus y \oplus z$ .	6	L4	CO3
	b.	Obtain canonical forms of the following Boolean expressions [SoP form]. i) $f = a + \bar{b}c$ ii) $f = xy + \bar{x}z$ .	6	L3	CO3
	c.	Design full adder circuit using basic gates.	8	L3	CO3

## Module – 4

7	a.	Define embedded system. Differentiate between embedded systems and general purpose computing system.	6	L1	CO4
	b.	Draw the block diagram of embedded system and explain the different elements.	6	L2	CO4
	c.	Differentiate between : i) Microprocessor Vs Microcontroller ii) RISC Vs CISC.	8	L1	CO4

OR

8	a.	Draw the block diagram of instrumentation system and explain.	8	L2	CO4
	b.	What is seven segment display? Explain the types of seven segment display.	8	L2	CO4
	c.	What are sensors and Actuators?	4	L2	CO4

## Module – 5

9	a.	With a neat diagram, explain modem communication system.	6	L2	CO5
	b.	Define modulation and explain amplitude modulation with waveforms.	6	L2	CO5
	c.	With waveforms, explain ASK, FSK and SPK modulation techniques.	8	L2	CO5

OR

10	a.	Explain different modes of radio wave propagation.	8	L1	CO5
	b.	What is multiplexing? Explain different types of multiplexing in communication system.	8	L2	CO5
	c.	Explain the advantages of digital communication over analog communication.	4	L1	CO5

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BESCK104D

## First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Introduction to Mechanical Engineering

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain the role of Mechanical Engineering in Industries and society.	10	L2	CO1
	b.	Explain briefly the emerging trends of Mechanical Engineering in manufacturing and Energy sector.	10	L2	CO1
OR					
Q.2	a.	With sketch, explain the working principal of Thermal Power Plant.	10	L2	CO1
	b.	Explain the utilization of solar energy using Flat plate collector with a schematic diagram.	10	L2	CO1
Module – 2					
Q.3	a.	With line diagram, explain the working principle of Lathe machine.	6	L2	CO2
	b.	With neat sketches, illustrate i) Boring operation and ii) Reaming operation of drilling machine.	8	L3	CO2
	c.	Differentiate between Up milling and Down milling.	6	L2	CO2
OR					
Q.4	a.	With sketch, explain the basic components of CNC machine.	10	L2	CO2
	b.	State the advantages and applications of CNC machine.	5	L1	CO2
	c.	List and explain in brief the various steps involved in Additive manufacturing.	5	L1	CO2
Module – 3					
Q.5	a.	Analyze the working of four stroke petrol engine with sketches. Plot the PV diagram.	10	L4	CO3
	b.	List any five significant difference between petrol and diesel engine.	5	L1	CO3
	c.	State the various applications of IC engines.	5	L1	CO3
OR					
Q.6	a.	Describe Electrical Vehicles (EVs). Explain the components and working of Electrical vehicles.	10	L2	CO3

	<b>b.</b>	List the advantages and disadvantages of Electrical and Hybrid Electrical Vehicles.	<b>10</b>	<b>L1</b>	<b>CO3</b>
<b>Module – 4</b>					
<b>Q.7</b>	<b>a.</b>	State the classification of Metals.	<b>5</b>	<b>L1</b>	<b>CO4</b>
	<b>b.</b>	Discuss the compositions , properties and applications of Ferrous and Non – Ferrous metals.	<b>10</b>	<b>L2</b>	<b>CO4</b>
	<b>c.</b>	What are Shape Memory Alloys? Mention the applications of Shape Memory alloys.	<b>5</b>	<b>L2</b>	<b>CO4</b>
<b>OR</b>					
<b>Q.8</b>	<b>a.</b>	What is Welding? With sketch, explain the process of Arc welding.	<b>10</b>	<b>L2</b>	<b>CO4</b>
	<b>b.</b>	With figures, explain the 3 – types of flames in Oxy – Acetylene gas welding.	<b>6</b>	<b>L1</b>	<b>CO4</b>
	<b>c.</b>	Discuss the application of brazing.	<b>4</b>	<b>L2</b>	<b>CO4</b>
<b>Module – 5</b>					
<b>Q.9</b>	<b>a.</b>	Define Automation. Explain 3 – types of automation with example.	<b>10</b>	<b>L2</b>	<b>CO5</b>
	<b>b.</b>	With sketches, explain Cartesian and Polar robotic configurations.	<b>6</b>	<b>L2</b>	<b>CO5</b>
	<b>c.</b>	Differentiate between Open loop and Closed loop control system.	<b>4</b>	<b>L2</b>	<b>CO5</b>
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	Define Internet of Things (IoT). Briefly explain the characteristics of IoT.	<b>10</b>	<b>L2</b>	<b>CO5</b>
	<b>b.</b>	Explain physical design and protocols of IoT.	<b>10</b>	<b>L2</b>	<b>CO5</b>

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BESCK104E

**First Semester B.E/B.Tech. Degree Examination, Dec.2024/Jan.2025**

## Introduction C Programming

Time: 3 hrs.

Max. Marks:100

**Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
1	a.	Classify the different types of input devices and briefly explain the wireless keyboard.	7	L2	CO1
	b.	Provide a brief explanation of the process involved in compiling and executing a C program.	7	L2	CO1
	c.	Explain the structure of a C program, emphasizing key components through an example.	6	L2	CO1
<b>OR</b>					
2	a.	Describe the working of a printer and an LCD monitor with detailed sketches.	8	L2	CO1
	b.	What are variables? Provide an example of how to declare and initialize a variable of different datatypes.	6	L2	CO1
	c.	Write a C program that demonstrates the use of standard libraries for performing input and output operations.	6	L3	CO1
<b>Module – 2</b>					
3	a.	Classify the different types of binary operators supported in C language. Explain the bitwise logical operator.	7	L2	CO2
	b.	Use a simple if statement to determine if a person's age qualifies them to vote.	6	L3	CO2
	c.	Write a C program to calculate the sum of numbers from m to n.	7	L3	CO2
<b>OR</b>					
4	a.	Write a program to convert integer number into the corresponding floating-point number.	6	L3	CO2
	b.	With a flow chart, explain the concept of switch statement.	7	L2	CO2
	c.	Write a C program to generate the pattern * * * * * * * * * *	7	L3	CO2
<b>Module – 3</b>					
5	a.	What is the difference between a function definition and a function prototype? Illustrate with an example code.	7	L2	CO3
	b.	Name the different storage classes and explain the purpose of each.	6	L2	CO3
	c.	Write a program to read n numbers into an array from the user and arrange them in ascending order using bubble sort.	7	L3	CO3

OR

6	a.	What is the difference between pass-by-value and pass-by-reference in function arguments? Provide an example for each.	7	L3	CO2
	b.	Write a program to call the function addNumbers(int a, int b) with values a = 5 and b = 10. Print the result inside the main function.	6	L3	CO3
	c.	Write a C program that prompts the user to enter a key element and searches for it within an array. The program should return the index of the element if found, or indicate that the element is not present in the array.	7	L3	CO3

## Module – 4

7	a.	Write a program to transpose the elements of a $3 \times 3$ matrix.	7	L4	CO3
	b.	Write a C program to input two m X n matrices and then calculate the sum of their corresponding elements and store it in a third m X n matrix.	8	L4	CO3
	c.	State the importance of using scanf to read a string. Explain.	5	L4	CO2

OR

8	a.	Write a program that multiplies two 2D matrices.	10	L3	CO4
	b.	Discuss the different functions available for reading and writing strings along with syntax or example code.	10	L2	CO4

## Module – 5

9	a.	Briefly explain string taxonomy.	6	L2	CO5
	b.	Write a C program to calculate area of circle using pointers.	7	L3	CO5
	c.	Describe a structure to store customer information.	7	L2	CO5

OR

10	a.	Write a program to find the length of a string without using the library function.	7	L3	CO5
	b.	Define a pointer. With an example show the declaration of pointers and their usage to assign value to a variable.	7	L2	CO5
	c.	Write the syntax and example to declare a structure.	6	L2	CO5

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BETCK105E

**First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025**

## Renewable Energy Sources

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.*

*2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain the principles of renewable energy and sustainable development.	6	L1	CO1
	b.	Discuss India and World wide renewable energy availability.	8	L1	CO1
	c.	Briefly discuss Solar Energy Source.	6	L1	CO1
OR					
Q.2	a.	Explain with a neat sketch, construction and working of Geothermal Energy power plant.	8	L2	CO1
	b.	Write a short note on Internet of Energy [IoE].	6	L2	CO1
	c.	Discuss the Biomass Energy and soil shale.	6	L2	CO1
Module – 2					
Q.3	a.	Define i) Diffused Radiation    ii) Beam Radiation    iii) Irradiance iv) Solar constant.	8	L2	CO2
	b.	With a neat diagram, discuss the construction and working of Pyrhelio meters.	6	L2	CO2
	c.	With simple sketch, explain the solar distillation process.	6	L2	CO2
OR					
Q.4	a.	With a neat diagram, explain solar pond electric power plant.	8	L3	CO2
	b.	Explain the working principles of Photovoltaic cell.	6	L2	CO2
	c.	Write the advantages , disadvantages and application of solar energy.	6	L2	CO2
Module – 3					
Q.5	a.	Explain the various factors in wind energy site selection.	6	L1	CO3
	b.	With a neat block diagram, explain the working of Wind Energy Convention System (WECS).	8	L2	CO3
	c.	With a neat diagram, explain the working of Horizontal axis wind turbine.	6	L2	CO3
OR					



<b>Q.6</b>	<b>a.</b>	Define Biomass Energy. Explain the Photosynthesis process.	<b>6</b>	<b>L2</b>	<b>CO3</b>
	<b>b.</b>	Explain with a neat sketch, fixed come biodigester.	<b>8</b>	<b>L1</b>	<b>CO3</b>
	<b>c.</b>	With a line diagram, discuss the working of down draft gassifier.	<b>6</b>	<b>L3</b>	<b>CO3</b>
<b>Module – 4</b>					
<b>Q.7</b>	<b>a.</b>	Discuss the problem faced in exploring tidal energy.	<b>6</b>	<b>L2</b>	<b>CO4</b>
	<b>b.</b>	With neat diagram, explain single basin tidal power plant.	<b>6</b>	<b>L2</b>	<b>CO4</b>
	<b>c.</b>	Explain wave energy and list out the advantages and limitations of wave energy.	<b>8</b>	<b>L1</b>	<b>CO4</b>
<b>OR</b>					
<b>Q.8</b>	<b>a.</b>	Explain with a neat sketch, working of OTEC power plant.	<b>8</b>	<b>L2</b>	<b>CO4</b>
	<b>b.</b>	Discuss in detail about the problem associated in OTEC.	<b>6</b>	<b>L1</b>	<b>CO4</b>
	<b>c.</b>	Write a OTEC power station in the World.	<b>6</b>	<b>L1</b>	<b>CO4</b>
<b>Module – 5</b>					
<b>Q.9</b>	<b>a.</b>	Explain the principle and working of Hydrogen fuel cell.	<b>8</b>	<b>L2</b>	<b>CO5</b>
	<b>b.</b>	Classify fuel cells in detail.	<b>6</b>	<b>L2</b>	<b>CO5</b>
	<b>c.</b>	Explain zero energy concepts.	<b>6</b>	<b>L1</b>	<b>CO5</b>
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	Explain with a neat sketch, electrolysis method for hydrogen production.	<b>8</b>	<b>L2</b>	<b>CO5</b>
	<b>b.</b>	Discuss different method of hydrogen storage (any two).	<b>6</b>	<b>L2</b>	<b>CO5</b>
	<b>c.</b>	Write the advantages and disadvantages of hydrogen fuel.	<b>6</b>	<b>L1</b>	<b>CO5</b>

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## First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025

### Introduction to Internet of Things

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	With a neat diagram, explain the network communication between two hosts following the OSI model.	8	L2	CO1
	b.	Explain the IoT planes, various enablers of IoT, and the complex interdependencies among them with a neat diagram.	6	L2	CO1
	c.	Briefly explain various network topologies with suitable diagrams.	6	L2	CO1
OR					
Q.2	a.	With a neat diagram, explain internet protocol suite.	8	L2	CO1
	b.	Explain various networking components of IoT.	6	L2	CO1
	c.	What is IoT? Write the characteristics of IoT system.	6	L2	CO1
Module – 2					
Q.3	a.	With a neat diagram, explain the functional blocks of a typical sensor node in IoT.	10	L2	CO2
	b.	Outline basic differences between transducer, sensor and an actuator.	10	L4	CO2
OR					
Q.4	a.	With a neat diagram, explain working mechanism of actuator.	10	L2	CO2
	b.	Compare mechanical, soft and shape memory based actuators.	10	L4	CO2
Module – 3					
Q.5	a.	With a neat diagram, explain two types of data formats and processing importance in IoT.	10	L2	CO3
	b.	Explain IoT device selection considerations.	10	L2	CO3
OR					
Q.6	a.	Discuss with a neat diagram, event detection using offsite remote and collaborative processing topology.	10	L2	CO3
	b.	Explain different data offloading strategies with locations and decision making.	10	L2	CO3
Module – 4					
Q.7	a.	What is Service Level Agreement (SLA)? Explain its importance and merits used while defining SLA.	10	L2	CO4
	b.	With neat diagram, explain cloud models and features of commercial cloud Amazon Web Services (AWS).	10	L2	CO4
OR					
Q.8	a.	What is virtualization? Explain its advantages from end-user and service provider point of view.	10	L2	CO4
	b.	With a diagram, briefly explain the architecture of leaf Area Index system.	10	L2	CO4
Module – 5					
Q.9	a.	With a neat diagram, explain categories of machine learning and its advantages.	10	L2	CO5
	b.	With the help of a block diagram, explain the components of healthcare IoT.	10	L2	CO5
OR					
Q.10	a.	Discuss the advantages and risks associated with healthcare IoT.	10	L2	CO5
	b.	Explain fog framework of intelligent public safety in vehicular environment FISVER with block diagram.	10	L2	CO5

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Question Paper Version : A

**First / Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025  
Indian Constitution**

Time: 1 hr.]

[Max. Marks: 50

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
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4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

- 
1. The idea of the Constitution of India was flashed for the first time by :  
a) M.N. Roy                      b) Motilal Nehru              c) B. R. Ambedkar              d) M.K. Gandhi
  2. The first session of the Constitution Assembly was held on :  
a) 25 December 1949              b) 26 January 1949  
c) 09 December 1946              d) 11 November 1946
  3. Which one of the following acted as the Provisional President of Constituent Assembly?  
a) Dr. Rajendra Prasad              b) Jawaharlal Nehru  
c) K.M. Munshi                      d) Dr. Sachidananda Sinha
  4. The maximum influence on the Constitution of India was exercised by :  
a) The Constitution of USA              b) The Constitution of UK  
c) The Government of India Act 1935              d) The Constitution of Ireland
  5. \_\_\_\_\_ is the key to open the minds of the makers of the Constitution.  
a) Fundamental Rights              b) Directive principles of State Policy  
c) Preamble                              d) Fundamental Duties
  6. This is not the right of the arrested person  
a) To produce before the magistrate immediately  
b) To inform him the grounds of his arrest  
c) To consult his lawyer  
d) To product before the magistrate within 24 hours of his arrest.

7. Under which Amendment, a new Article 21 – A was inserted and it provides for “Right to Education” was made a Fundamental Rights.  
a) 76<sup>th</sup> Amendment    b) 86<sup>th</sup> Amendment    c) 91<sup>st</sup> Amendment    d) 42<sup>nd</sup> Amendment
8. The concept of secular state implies  
a) No religion    b) Dictatorship  
c) Neutrality of religion    d) Adoption of a single religion
9. The federal features of the Indian Constitution provides for :  
a) Distribution of legislative powers between the Union Government and the State Government.  
b) Division of powers between Executive and Judiciary  
c) Distribution of powers between Lok Sabha and Rajya Sabha  
d) Distribution of powers between Prime Minister and Cabinet.
10. How many times the Preamble of the Indian Constitution has been amended?  
a) Once    b) Twice    c) Trice    d) Not amended
11. The Original constitution classified the Fundamental Rights, into seven categories but not there are only  
a) Three categories    b) Four categories    c) Five categories    d) Six categories
12. India has which system of Government?  
a) Presidential    b) Monarchical    c) Parliamentary    d) Autocratic
13. The Government of India Act introduced a system of diarchy in the provinces ; Dyouchy means a system of  
a) Responsible Government    b) Dictatorship  
c) Double Government    d) Aristocratic Government
14. Reservation in promotion to SC’s and ST’s permitted in  
a) Article 14    b) Article 15    c) Article 16    d) Article 18
15. Which of the following is not covered under Article 20, protection in respect of conviction of offence?  
a) Right to livelihood    b) No ex – post – facto  
c) No double jeopardy    d) No self - incrimination
16. Article 196(1) (a) guarantees freedom of speech and expression to  
a) All citizen of India    b) All Indian and foreigners  
c) Only person below 21 years of age    d) Only person attained 60 years
17. Cultural and Educational Rights are dealt in  
a) Article 30 and 31    b) Article 27 and 28    c) Article 29 and 30    d) Article 14 and 15
18. A new chapter IVA on Fundamental Duties was inserted in the Indian Constitution in  
a) 1972    b) 1976    c) 1980    d) 1984
19. Which one of the following Fundamental Right was described by Dr. A. R. Ambedkar as the heart and soul of Constitution?  
a) Right to Equality    b) Right to Religion  
c) Right to Constitutional remedies    d) All of these

20. Uniform civil code for all citizen is  
 a) Directive principles  
 b) Fundamental Duties  
 c) Fundamental Rights  
 d) None of these
21. The Directive principles of State Policy  
 a) Cannot be enforced in any count  
 b) Can be enforced in High Courts only  
 c) Can be enforced in Supreme Court only  
 d) Can be enforced in both Supreme Court and High Court.
22. The Chief justice of Supreme Court of India is appointed by  
 a) Prime Minister  
 b) President  
 c) Council of Ministers  
 d) Parliament
23. To whom the Indian Constitution has given the power to pardon the sentence of death?  
 a) Chief Justice of Supreme Court  
 b) Governor of State Government  
 c) President of Union Government  
 d) Both (b) and (c)
24. Fundamental duties are applicable to all \_\_\_\_\_  
 a) States  
 b) Foreigners  
 c) Citizens  
 d) All of these
25. President can resign to his office by giving his resignation to  
 a) Chief Justice of India  
 b) Prime Minister  
 c) Speaker of Lok Sabha  
 d) Vice President
26. The Vice President has  
 a) Executive powers  
 b) Legislative powers  
 c) Right to preside over Rajya Sabha  
 d) Right to grant pardon
27. The members of Lok Sabha are elected for a term of  
 a) 4 years  
 b) 6 years  
 c) 12 years  
 d) 5 years
28. Who appoints the Chairman of the Union Public Service Commission?  
 a) President  
 b) Prime Minister  
 c) Parliament  
 d) Chief Justice of India
29. The Supreme Court has original jurisdiction to decide  
 a) Dispute between two or more states  
 b) Dispute between India and Pakistan  
 c) Dispute arises at different levels of self government  
 d) Criminal cases filed directly to Supreme Court by any citizen.
30. President of India is  
 a) Real executive  
 b) Head of cabinet  
 c) Head of the Government  
 d) Nominal Executive
31. The Chief Justice and other Judges of High Court continue in office until they attain the age of  
 a) 60 Years  
 b) 62 Years  
 c) 58 Years  
 d) 65 Years

32. What is the system of legislature in the State of Karnataka?  
a) Bicameral                      b) Unicameral                      c) Tricameral                      d) None of these
33. In our Country, the amendment of the Constitution can be initiated by the  
a) Parliament                      b) People                      c) President                      d) Supreme Court
34. To declare national emergency, a decision must be taken by  
a) Chief Justice                      b) Lok Sabha                      c) Rajya Sabha                      d) Union Cabinet
35. The speaker of Lok Sabha shall be elected by the  
a) Member of Rajya Sabha                      b) President  
c) Members of Lok Sabha                      d) Vice - President
36. The size of the ministry in a State is decided by the  
a) Governor                      b) Chief Minister  
c) Chief Justice of High Court                      d) Members of Legislative Assembly
37. Who presides over the joint session of Parliament?  
a) Speaker of Lok Sabha                      b) President  
c) Vice – President                      d) Prime Minister
38. The maximum number of Minister, including the Chief Minister in a State shall not be more than of Vidhan Sabha's strength.  
a) 10 %                      b) 12 %                      c) 15 %                      d) 20 %
39. Which amendment of the Indian Constitution lowered the voting age from 21 to 18?  
a) 42<sup>nd</sup> Amendment                      b) 44<sup>th</sup> Amendment                      c) 73<sup>rd</sup> Amendment                      d) 61<sup>st</sup> Amendment
40. Which one of the following Amendments to the Indian Constitution is called a Mini Constitution?  
a) 24<sup>th</sup> Amendment                      b) 38<sup>th</sup> Amendment                      c) 39<sup>th</sup> Amendment                      d) 42<sup>nd</sup> Amendment
41. Which Article of Indian Constitution lays down the method of Amendment?  
a) Article 360                      b) Article 368                      c) Article 370                      d) Article 376
42. National Emergency proclamation under Article 352 is issued in case of  
a) War                      b) External Aggression  
c) Armed rebellion                      d) All of these
43. Governor addresses his resignation to  
a) The Prime Minister                      b) The President  
c) Vice President                      d) Chief Minister
44. Election Commission of India conducts election to  
a) Parliament  
b) State Legislatures  
c) Office of the President and Vice President  
d) All of these

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Question Paper Version : B

**First / Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025**

**Indian Constitution**

Time: 1 hr.]

[Max. Marks: 50

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  3. Governor addresses his resignation to  
a) The Prime Minister                      b) The President  
c) Vice President                      d) Chief Minister
  4. Election Commission of India conducts election to  
a) Parliament  
b) State Legislatures  
c) Office of the President and Vice President  
d) All of these
  5. The President is empowered to dissolve :  
a) Only Lok Sabha                      b) Only Rajya Sabha  
c) Both Lok Sabha and Rajya Sabha                      d) None of these
  6. On what grounds the Judges of Supreme Court are removed?  
a) Unconstitutional                      b) Judicial Review  
c) Proved Misbehaviour , incapacity                      d) None of these
  7. How many times the President of India can seek re – election to his post?  
a) Once                                      b) Three times  
c) Two times                                      d) Any number of times

Ver – B – 1 of 5

8. Collectively the cabinet is responsible to the  
a) Prime Minister      b) Lok Sabha      c) Parliament      d) President
9. This is not a Fundamental duty  
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b) Safeguard Public property  
c) Respect to elders and teachers  
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Question Paper Version : C

**First / Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025  
Indian Constitution**

Time: 1 hr.]

[Max. Marks: 50

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    - b) Can be enforced in High Courts only
    - c) Can be enforced in Supreme Court only
    - d) Can be enforced in both Supreme Court and High Court.
  2. The Chief justice of Supreme Court of India is appointed by
    - a) Prime Minister
    - b) President
    - c) Council of Ministers
    - d) Parliament
  3. To whom the Indian Constitution has given the power to pardon the sentence of death?
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    - b) Governor of State Government
    - c) President of Union Government
    - d) Both (b) and (c)
  4. Fundamental duties are applicable to all \_\_\_\_\_
    - a) States
    - b) Foreigners
    - c) Citizens
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  5. President can resign to his office by giving his resignation to
    - a) Chief Justice of India
    - b) Prime Minister
    - c) Speaker of Lok Sabha
    - d) Vice President
  6. The Vice President has
    - a) Executive powers
    - b) Legislative powers
    - c) Right to preside over Rajya Sabha
    - d) Right to grant pardon
  7. The members of Lok Sabha are elected for a term of
    - a) 4 years
    - b) 6 years
    - c) 12 years
    - d) 5 years

8. Who appoints the Chairman of the Union Public Service Commission?
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  - c) Parliament
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  - c) Office of the President and Vice President
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30. Which one of the following Amendments to the Indian Constitution is called a Mini Constitution?  
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a) All citizen of India                      b) All Indian and foreigners  
c) Only person below 21 years of age                      d) Only person attained 60 years
37. Cultural and Educational Rights are dealt in  
a) Article 30 and 31    b) Article 27 and 28    c) Article 29 and 30    d) Article 14 and 15
38. A new chapter IVA on Fundamental Duties was inserted in the Indian Constitution in  
a) 1972                      b) 1976                      c) 1980                      d) 1984
39. Which one of the following Fundamental Right was described by Dr. A. R. Ambedkar as the heart and soul of Constitution?  
a) Right to Equality                      b) Right to Religion  
c) Right to Constitutional remedies                      d) All of these
40. Uniform civil code for all citizen is  
a) Directive principles                      b) Fundamental Duties  
c) Fundamental Rights                      d) None of these
41. The idea of the Constitution of India was flashed for the first time by :  
a) M.N. Roy                      b) Motilal Nehru                      c) B. R. Ambedkar                      d) M.K. Gandhi
42. The first session of the Constitution Assembly was held on :  
a) 25 December 1949                      b) 26 January 1949  
c) 09 December 1946                      d) 11 November 1946
43. Which one of the following acted as the Provisional President of Constituent Assembly?  
a) Dr. Rajendra Prasad                      b) Jawaharlal Nehru  
c) K.M. Munshi                      d) Dr. Sachidananda Sinha
44. The maximum influence on the Constitution of India was exercised by :  
a) The Constitution of USA                      b) The Constitution of UK  
c) The Government of India Act 1935                      d) The Constitution of Ireland
45. \_\_\_\_\_ is the key to open the minds of the makers of the Constitution.  
a) Fundamental Rights                      b) Directive principles of State Policy  
c) Preamble                      d) Fundamental Duties
46. This is not the right of the arrested person  
a) To produce before the magistrate immediately  
b) To inform him the grounds of his arrest  
c) To consult his lawyer  
d) To product before the magistrate within 24 hours of his arrest.

47. Under which Amendment, a new Article 21 – A was inserted and it provides for “Right to Education” was made a Fundamental Rights.  
a) 76<sup>th</sup> Amendment    b) 86<sup>th</sup> Amendment    c) 91<sup>st</sup> Amendment    d) 42<sup>nd</sup> Amendment
48. The concept of secular state implies  
a) No religion    b) Dictatorship  
c) Neutrality of religion    d) Adoption of a single religion
49. The federal features of the Indian Constitution provides for :  
a) Distribution of legislative powers between the Union Government and the State Government.  
b) Division of powers between Executive and Judiciary  
c) Distribution of powers between Lok Sabha and Rajya Sabha  
d) Distribution of powers between Prime Minister and Cabinet.
50. How many times the Preamble of the Indian Constitution has been amended?  
a) Once    b) Twice    c) Trice    d) Not amended

\* \* \* \* \*

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Question Paper Version : D

**First / Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025**

**Indian Constitution**

Time: 1 hr.]

[Max. Marks: 50

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **fifty** questions, each question carries one mark.
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3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
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- 
1. The Chief Justice and other Judges of High Court continue in office until they attain the age of  
a) 60 Years                      b) 62 Years                      c) 58 Years                      d) 65 Years
  2. What is the system of legislature in the State of Karnataka?  
a) Bicameral                      b) Unicameral                      c) Tricameral                      d) None of these
  3. In our Country, the amendment of the Constitution can be initiated by the  
a) Parliament                      b) People                      c) President                      d) Supreme Court
  4. To declare national emergency, a decision must be taken by  
a) Chief Justice                      b) Lok Sabha                      c) Rajya Sabha                      d) Union Cabinet
  5. The speaker of Lok Sabha shall be elected by the  
a) Member of Rajya Sabha                      b) President  
c) Members of Lok Sabha                      d) Vice - President
  6. The size of the ministry in a State is decided by the  
a) Governor                      b) Chief Minister  
c) Chief Justice of High Court                      d) Members of Legislative Assembly
  7. Who presides over the joint session of Parliament?  
a) Speaker of Lok Sabha                      b) President  
c) Vice – President                      d) Prime Minister
  8. The maximum number of Minister, including the Chief Minister in a State shall not be more than of Vidhan Sabha's strength.  
a) 10 %                      b) 12 %                      c) 15 %                      d) 20 %

Ver – D – 1 of 5

9. Which amendment of the Indian Constitution lowered the voting age from 21 to 18?  
a) 42<sup>nd</sup> Amendment b) 44<sup>th</sup> Amendment c) 73<sup>rd</sup> Amendment d) 61<sup>st</sup> Amendment
10. Which one of the following Amendments to the Indian Constitution is called a Mini Constitution?  
a) 24<sup>th</sup> Amendment b) 38<sup>th</sup> Amendment c) 39<sup>th</sup> Amendment d) 42<sup>nd</sup> Amendment
11. The idea of the Constitution of India was flashed for the first time by :  
a) M.N. Roy b) Motilal Nehru c) B. R. Ambedkar d) M.K. Gandhi
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d) Distribution of powers between Prime Minister and Cabinet.
20. How many times the Preamble of the Indian Constitution has been amended?  
a) Once b) Twice c) Trice d) Not amended

21. Which Article of Indian Constitution lays down the method of Amendment?  
a) Article 360                      b) Article 368                      c) Article 370                      d) Article 376
22. National Emergency proclamation under Article 352 is issued in case of  
a) War    b) External Aggression  
c) Armed rebellion                              d) All of these
23. Governor addresses his resignation to  
a) The Prime Minister                              b) The President  
c) Vice President                                      d) Chief Minister
24. Election Commission of India conducts election to  
a) Parliament  
b) State Legislatures  
c) Office of the President and Vice President  
d) All of these
25. The President is empowered to dissolve :  
a) Only Lok Sabha                                      b) Only Rajya Sabha  
c) Both Lok Sabha and Rajya Sabha                      d) None of these
26. On what grounds the Judges of Supreme Court are removed?  
a) Unconstitutional                                      b) Judicial Review  
c) Proved Misbehaviour , incapacity                      d) None of these
27. How many times the President of India can seek re – election to his post?  
a) Once    b) Three times  
c) Two times    d) Any number of times
28. Collectively the cabinet is responsible to the  
a) Prime Minister                      b) Lok Sabha                      c) Parliament                      d) President
29. This is not a Fundamental duty  
a) Respect to National Flag and National Anthem  
b) Safeguard Public property  
c) Respect to elders and teachers  
d) To preserve culture and heritage of India.
30. President of India address the joint session of both houses of Parliament in  
a) First session                      b) Second session                      c) Third session                      d) None of these
31. The Directive principles of State Policy  
a) Cannot be enforced in any court  
b) Can be enforced in High Courts only  
c) Can be enforced in Supreme Court only  
d) Can be enforced in both Supreme Court and High Court.
32. The Chief justice of Supreme Court of India is appointed by  
a) Prime Minister                                      b) President  
c) Council of Ministers                                      d) Parliament

33. To whom the Indian Constitution has given the power to pardon the sentence of death?  
 a) Chief Justice of Supreme Court                      b) Governor of State Government  
 c) President of Union Government                      d) Both (b) and (c)
34. Fundamental duties are applicable to all \_\_\_\_  
 a) States                      b) Foreigners                      c) Citizens                      d) All of these
35. President can resign to his office by giving his resignation to  
 a) Chief Justice of India                      b) Prime Minister  
 c) Speaker of Lok Sabha                      d) Vice President
36. The Vice President has  
 a) Executive powers                      b) Legislative powers  
 c) Right to preside over Rajya Sabha                      d) Right to grant pardon
37. The members of Lok Sabha are elected for a term of  
 a) 4 years                      b) 6 years                      c) 12 years                      d) 5 years
38. Who appoints the Chairman of the Union Public Service Commission?  
 a) President                      b) Prime Minister  
 c) Parliament                      d) Chief Justice of India
39. The Supreme Court has original jurisdiction to decide  
 a) Dispute between two or more states  
 b) Dispute between India and Pakistan  
 c) Dispute arises at different levels of self government  
 d) Criminal cases filed directly to Supreme Court by any citizen.
40. President of India is  
 a) Real executive                      b) Head of cabinet  
 c) Head of the Government                      d) Nominal Executive
41. The Original constitution classified the Fundamental Rights, into seven categories but not there are only  
 a) Three categories                      b) Four categories                      c) Five categories                      d) Six categories
42. India has which system of Government?  
 a) Presidential                      b) Monarchical                      c) Parliamentary                      d) Autocratic
43. The Government of India Act introduced a system of diarchy in the provinces ; Dyouchy means a system of  
 a) Responsible Government                      b) Dictatorship  
 c) Double Government                      d) Aristocratic Government
44. Reservation in promotion to SC's and ST's permitted in  
 a) Article 14                      b) Article 15                      c) Article 16                      d) Article 18
45. Which of the following is not covered under Article 20, protection in respect of conviction of offence?  
 a) Right to livelihood                      b) No ex – post – facto  
 c) No double jeopardy                      d) No self - incrimination



Ver - D - 5 of 5

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Question Paper Version : A

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,  
Dec.2024/Jan.2025**

## **Innovation and Design Thinking**

Time: 1 hr.]

[Max. Marks: 50

### **INSTRUCTIONS TO THE CANDIDATES**

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- 
1. Design thinking is a process of \_\_\_\_  
a) Thinking about design  
b) Designing ways in which people think  
c) Asking users to solve problems  
d) Defining framing and solving problems from user's prospective.
  2. Design thinking typically helps in \_\_\_\_  
a) Innovation  
b) Data analytics  
c) Financial planning  
d) Operation efficiency
  3. Design thinking principle DO NOT include  
a) Feasibility  
b) Viability  
c) Desirability  
d) Credibility
  4. Design thinker in an organization are  
a) People  
b) Employees  
c) Managers  
d) All of these
  5. What are the steps of Design thinking process?  
a) Understand > Draw > Ideate > Create > Test  
b) Empathize > Define > Ideate > Prototype > Test  
c) Empathize > Design > Implement > Produce > Test  
d) Understand > Define > Ideate > Produce > Try

6. Design thinking is a linear process  
a) True                                      b) False                                      c) Cannot say                                      d) None of these
7. Which of these is a reason that companies might Implement design thinking?  
a) It relies on risk - taking                                      b) It creates more problem  
c) It accelerates effectiveness                                      d) It eliminates mistakes
8. Tools of Design thinking are \_\_\_\_  
a) Visualization                                      b) Experience mapping  
c) Rapid concept development                                      d) All of these
9. Collaboration in design thinking for strategic innovation includes.  
a) Collaboration with all the members of the organization for shared solution for complex problem.  
b) Collaboration with design thinking team  
c) Collaboration with design thinking consultant  
d) Collaboration with operation team.
10. What does MVP stand for \_\_\_\_  
a) Most viable product                                      b) Maximum viable product  
c) Minimum viable product                                      d) None of these
11. Journey Mapping is a \_\_\_\_  
a) Geographic research                                      b) Ethnographic research  
c) Both (a) & (b)                                      d) None of these
12. Which of the following are NOT tools of Design thinking?  
a) Co - creation                                      b) Prototyping  
c) Online Marketing                                      d) Mind Mapping
13. \_\_\_\_ is a way of collaboration where in participants , regardless of their location , work together to reach a certain goal.  
a) Distributed work                                      b) Distributed collaboration  
c) Multiple perspective                                      d) All of these
14. A Rapid concept Development can be used before the progress of \_\_\_\_  
a) 25%                                      b) 50%                                      c) 30%                                      d) 35%
15. Mind Maps are used to \_\_\_\_ ideas.  
a) Generate                                      b) Visualize                                      c) Organize                                      d) All of these
16. Brain storming session is \_\_\_\_  
a) There is no rule, it is UP to the brainstorming facilitator to decide  
b) A mix of individual and collective activities  
c) A collective activity only  
d) An individual activity only
17. Preparing and representing project information in the form of stories , maps and images is \_\_\_\_  
a) Journey mapping                                      b) Visualization  
c) Value chain analysis                                      d) Prototyping

18. What is way to narrow down the thoughts to reach at the final solution?
  - a) Convergent thinking
  - b) Divergent thinking
  - c) Linear thinking
  - d) All of these
19. To Empathize in design thinking means
  - a) To understand the user
  - b) To have sympathy
  - c) To be socially responsible
  - d) To understand the Technology
20. \_\_\_\_\_ is used with the objective of identifying the needs of the customers which the customers themselves are unable to articulate.
  - a) Mind mapping
  - b) Experience mapping
  - c) Story telling
  - d) Rapid concept development
21. The three "I"s of design thinking DO NOT includes.
  - a) Interest
  - b) Implementation
  - c) Inspiration
  - d) Ideation
22. What is the characteristic for the location of a virtual team?
  - a) In the same building
  - b) Remotely
  - c) In the same industry
  - d) In the same country
23. Design thinking follows
  - a) Waterfall Model
  - b) Agile methodology
  - c) Both of these
  - d) None of these
24. Collaborative team work is essential in design thinking for
  - a) Equal importance to all members
  - b) Solving multifaceted problems
  - c) Unbiased selection of ideas
  - d) Better failure management
25. BPM stands for
  - a) Building Product Management
  - b) Business Product Management
  - c) Business Process Management
  - d) Basic Product Management
26. \_\_\_\_\_ is an iterative and incremental method of managing development and design.
  - a) Agile Methodology
  - b) Waterfall Model
  - c) Cyclic Methodology
  - d) All of these
27. Which of the following sequences is correct for Waterfall Methodology?
  - a) Define – Design – Develop – Test – Deploy
  - b) Define – Develop – Design – Test – Deploy
  - c) Define – Design – Develop – Deploy – Test
  - d) Design – Define – Develop – Test - Deploy
28. Representation of prototypes by
  - a) Story board
  - b) Scenarios
  - c) Screen shots
  - d) All of these
29. Scope of Strategic Innovation includes
  - a) Managed Innovation
  - b) Strategic Alignment
  - c) Industry Foresight
  - d) All of these

30. What is the term for the phenomenon that a new IT system is implemented across the whole organization simultaneously?
- a) Immersed approach
  - b) Parallel approach
  - c) Plunge approach
  - d) Instant approach
31. “Products are shaped by stories that people tell about them”. The phrase indicates the importance of \_\_\_\_\_
- a) Importance of product
  - b) User experience
  - c) Importance of stories
  - d) Importance of Narration
32. The reconfiguration of existing product technologies is known as
- a) Modular Innovation
  - b) Radical Innovation
  - c) Architectural Innovation
  - d) Incremental Innovation
33. What is the goal of value chain analysis?
- a) To create a better value for customer in the value chain
  - b) To visualize ideas and organize them
  - c) To develop new business opportunities
  - d) To test prototypes of proposed solutions
34. A model of a proposed solution looks as close as possible to the final design is \_\_\_\_\_
- a) High fidelity
  - b) Low fidelity
  - c) No fidelity
  - d) MVP
35. Which tool is used to represent how ideas are linked to main idea?
- a) Visualization
  - b) Journey mapping
  - c) Mind mapping
  - d) Rapid concept development
36. What is the core belief behind co-reaction?
- a) The presence of users is essential to the creative process
  - b) Rapid development of new business ideas
  - c) Testing assumptions about a new business idea
  - d) Visualizing ideas and organizing them
37. What is the purpose of learning launches?
- a) To test prototype of proposed solutions
  - b) To explore the fundamental assumptions of market potential for new growth
  - c) To analyze the value chain of an organization
  - d) To create a visual representation of a business idea
38. What is Business Process Modelling?
- a) A way of visualization business strategies
  - b) A method for quality management
  - c) A method for time and motion study
  - d) A way of dividing business processes into basic components and functions.
39. Frank Robinson defined and coined the term
- a) Design thinking
  - b) Mind mapping
  - c) MVP
  - d) Hypothesis

40. Experience economy has resulted in
  - a) Active participation
  - b) Passive consumption
  - c) Minimum consumption
  - d) None of these
41. Outsourcing of innovation globally is more likely where :
  - a) Innovations are autonomous
  - b) Innovations are systematic
  - c) Innovations are systematic or autonomous
  - d) Innovations are made by service sector firms
42. Which of the below firm is associated the most with design thinking?
  - a) Ikea
  - b) Ideo
  - c) Idea
  - d) Ikei
43. Design thickners create low fidelity prototypes to
  - a) Validate concepts for the market
  - b) Build production ready products
  - c) Estimate the price of production
  - d) Test concepts quickly and cheaply with potential users
44. Extension of a successful brand or iteration a current period is
  - a) Revolutionary Innovation
  - b) Dynamic Innovation
  - c) Incremental Innovation
  - d) Evolutionary Innovation
45. Benefits of Agile in virtual collaboration are
  - a) Allow openers
  - b) Rhythm building
  - c) Visualize the whole thing
  - d) All of these
46. Which famous design school become most vital in framing design thinking as a core subject
  - a) Trinity College
  - b) Business School, Ahmadabad
  - c) Massachusetts University
  - d) Standford d. school
47. The word design thinking is defined by
  - a) Tim Brown
  - b) Rober Mckin
  - c) Peter Rowses
  - d) Balter Moore
48. David is testing his prototype, what should his next move be?
  - a) Ideate and come up with more idea
  - b) Research the people he is designing for
  - c) Collect feedback from the testers to evaluate his idea
  - d) Change his problem statement
49. What element of user experience design would be the design strategy full under?
  - a) Interaction design
  - b) Experience strategy
  - c) User Research
  - d) Information architecture
50. What purpose does point of view (POV) serve in design thinking?
  - a) It serves as the guide for developing the prototype
  - b) It illustrates what your competitors are doing better
  - c) It is used in the testing phase for receiving feedback
  - d) It provides focus for the design team is brain storming.

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Ver – A – 5 of 5

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**Question Paper Version : B**

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,  
Dec.2024/Jan.2025**

## **Innovation and Design Thinking**

Time: 1 hr.]

[Max. Marks: 50

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  - a) There is no rule, it is UP to the brainstorming facilitator to decide
  - b) A mix of individual and collective activities
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  - a) Journey mapping
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  - c) Value chain analysis
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  - a) Convergent thinking
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29. To Empathize in design thinking means
  - a) To understand the user
  - b) To have sympathy
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30. \_\_\_\_\_ is used with the objective of identifying the needs of the customers which the customers themselves are unable to articulate.
  - a) Mind mapping
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  - a) Thinking about design
  - b) Designing ways in which people think
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  - d) Defining framing and solving problems from user's prospective.
32. Design thinking typically helps in \_\_\_\_\_
  - a) Innovation
  - b) Data analytics
  - c) Financial planning
  - d) Operation efficiency
33. Design thinking principle DO NOT include
  - a) Feasibility
  - b) Viability
  - c) Desirability
  - d) Credibility
34. Design thinker in an organization are
  - a) People
  - b) Employees
  - c) Managers
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35. What are the steps of Design thinking process?
  - a) Understand > Draw > Ideate > Create > Test
  - b) Empathize > Define > Ideate > Prototype > Test
  - c) Empathize > Design > Implement > Produce > Test
  - d) Understand > Define > Ideate > Produce > Try
36. Design thinking is a linear process
  - a) True
  - b) False
  - c) Cannot say
  - d) None of these
37. Which of these is a reason that companies might Implement design thinking?
  - a) It relies on risk - taking
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  - a) Most viable product
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48. Representation of prototypes by  
a) Story board      b) Scenarios      c) Screen shots                      d) All of these
49. Scope of Strategic Innovation includes  
a) Managed Innovation                      b) Strategic Alignment  
c) Industry Foresight                      d) All of these
50. What is the term for the phenomenon that a new IT system is implemented across the whole organization simultaneously?  
a) Immersed approach                      b) Parallel approach  
c) Plunge approach                      d) Instant approach

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Question Paper Version : C

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,  
Dec.2024/Jan.2025**

## **Innovation and Design Thinking**

Time: 1 hr.]

[Max. Marks: 50

### **INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **fifty** questions, each question carries one mark.
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- 
1. "Products are shaped by stories that people tell about them". The phrase indicates the importance of \_\_\_\_  
a) Importance of product                      b) User experience  
c) Importance of stories                      d) Importance of Narration
  2. The reconfiguration of existing product technologies is known as  
a) Modular Innovation                      b) Radical Innovation  
c) Architectural Innovation                      d) Incremental Innovation
  3. What is the goal of value chain analysis?  
a) To create a better value for customer in the value chain  
b) To visualize ideas and organize them  
c) To develop new business opportunities  
d) To test prototypes of proposed solutions
  4. A model of a proposed solution looks as close as possible to the final design is \_\_\_\_  
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a) High fidelity                      b) Low fidelity                      c) No fidelity                      d) MVP
  5. Which tool is used to represent how ideas are linked to main idea?  
a) Visualization                      b) Journey mapping  
c) Mind mapping                      d) Rapid concept development

6. What is the core belief behind co-reaction?
  - a) The presence of users is essential to the creative process
  - b) Rapid development of new business ideas
  - c) Testing assumptions about a new business idea
  - d) Visualizing ideas and organizing them
7. What is the purpose of learning launches?
  - a) To test prototype of proposed solutions
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  - a) A way of visualization business strategies
  - b) A method for quality management
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21. Outsourcing of innovation globally is more likely where :  
a) Innovations are autonomous                      b) Innovations are systematic  
c) Innovations are systematic or autonomous  
d) Innovations are made by service sector firms
22. Which of the below firm is associated the most with design thinking?  
a) Ikea                      b) Ideo                      c) Idea                      d) Ikei
23. Design thickners create low fidelity prototypes to  
a) Validate concepts for the market                      b) Build production ready products  
c) Estimate the price of production  
d) Test concepts quickly and cheaply with potential users
24. Extension of a successful brand or iteration a current period is  
a) Revolutionary Innovation                      b) Dynamic Innovation  
c) Incremental Innovation                      d) Evolutionary Innovation
25. Benefits of Agile in virtual collaboration are  
a) Allow openers                      b) Rhythm building  
c) Visualize the whole thing                      d) All of these
26. Which famous design school become most vital in framing design thinking as a core subject  
a) Trinity College                      b) Business School, Ahmadabad  
c) Massachusetts University                      d) Standford d. school
27. The word design thinking is defined by  
a) Tim Brown                      b) Rober Mckin                      c) Peter Rowes                      d) Balter Moore

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Question Paper Version : D

**First/Second Semester B.E./B.Tech/B.Design Degree Examination,  
Dec.2024/Jan.2025**

## **Innovation and Design Thinking**

Time: 1 hr.]

[Max. Marks: 50

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30. Experience economy has resulted in  
a) Active participation      b) Passive consumption  
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31. Journey Mapping is a \_\_\_\_\_  
a) Geographic research      b) Ethnographic research  
c) Both (a) & (b)      d) None of these
32. Which of the following are NOT tools of Design thinking?  
a) Co - creation      b) Prototyping  
c) Online Marketing      d) Mind Mapping
33. \_\_\_\_\_ is a way of collaboration where in participants , regardless of their location , work together to reach a certain goal.  
a) Distributed work      b) Distributed collaboration  
c) Multiple perspective      d) All of these
34. A Rapid concept Development can be used before the progress of \_\_\_\_\_  
a) 25%      b) 50%      c) 30%      d) 35%
35. Mind Maps are used to \_\_\_\_\_ ideas.  
a) Generate      b) Visualize      c) Organize      d) All of these
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Question Paper Version : A

**First/Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025  
Balake Kannada**

Time: 1 hr.]

[Max. Marks: 50

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### Translate the following Kannada words into English :

1. Maga  
a) Father                      b) Sister                      c) Daughter                      d) Son
2. Mane  
a) Temple                      b) House                      c) Church                      d) Hospital
3. Kempu BaNNa  
a) Black colour                      b) Red colour                      c) White colour                      d) Green colour

### Translate the following English words into Kannada :

4. We  
a) Naavu                      b) Namma                      c) Namage                      d) Nimage
5. This  
a) Adu                      b) Alli                      c) Idu                      d) Both (a) and (b)
6. He  
a) Avanu                      b) Avalu                      c) Naanu                      d) Neenu

Match the following using Table given below :

a)	White	i)	Hudugi
b)	Girl	ii)	Sihi
c)	Daughter	iii)	Granthalaya
d)	Sweet	iv)	Bili
e)	Library	v)	Magalu

7. White  
a) = i                      b) = ii                      c) = iii                      d) = iv
8. Girl  
a) = i                      b) = ii                      c) = iii                      d) = v
9. Daughter  
a) = i                      b) = ii                      c) = iv                      d) = v
10. Sweet  
a) = i                      b) = ii                      c) = iii                      d) = iv
11. Library  
a) = i                      b) = ii                      c) = iii                      d) = iv

Write appropriate words for the following :

12. Mother  
a) Huduga                      b) Hudugi                      c) Tayi                      d) Tande
13. Festival  
a) Maduve                      b) Habba                      c) Mane                      d) Raste
14. Bitter  
a) Sihi                      b) Khara                      c) Uppu                      d) Kahi
15. Holiday  
a) Mara                      b) Raje                      c) Nagu                      d) Ooru
16. Town  
a) Halli                      b) Angadi                      c) Nagara                      d) Rajya

Translate the following Kannada words as per the given model [Q.No. 17 and 18]  
Example : Kacheri – Kacheriyalli.

17. Mane  
a) Manadalli                      b) Maneyinda                      c) Maneyalli                      d) Mane
18. Angadi  
a) Angadiyalli                      b) Angadihattira                      c) Angadiyage                      d) Angadiyolage

19. How would you write "This is my Book" in Kannada?  
 a) Adu Nanna pustaka b) idu nanna pustaka  
 c) Idu Avaru pustaka d) idu nannadu
20. How would you write "what is this" in Kannada?  
 a) Idu elli b) Idu yarige c) Idu yavudu d) Idu Avaradu
21. How would you write Fruit in Kannada  
 a) Hoovu b) Ele c) HaNNu d) BaNNa
22. How would you write "why sir" in Kannada?  
 a) Elli sir b) Yaake Saar c) Hogi Saar d) Banni Saar
23. What is the meaning of "Student" in Kannada?  
 a) Huduga b) Vidyarthi c) Jana d) Shale
24. How would you write "don't" in Kannada?  
 a) Beku b) Beke c) Beda d) Yaake
25. How would you write "Marriage" in Kannada?  
 a) Habba b) Maduve c) Sabe d) Prarthane

**Write the English word for the following :**

26. Chikka  
 a) Big b) Huge c) Small d) House
27. PaaTa  
 a) Story b) Lesson c) Book d) Drink
28. aNNa  
 a) Sister b) Mother c) Father d) Brother
29. Ketta  
 a) Good b) Bad c) New d) Big
30. Huduga  
 a) Son b) Boy c) Daughter d) Sister

**Match the following using the Table given below :**

a)	Fruit	i)	Vaidya
b)	Tree	ii)	Desha
c)	Flower	iii)	Mara
d)	Doctor	iv)	Hannu
e)	Country	v)	Hoovu

31. Fruit  
 a) = i b) = ii c) = iii d) = iv

32. Tree  
a) = i b) = ii c) = iii d) = iv
33. Flower  
a) = i b) = iii c) = iv d) = v
34. Doctor  
a) = i b) = ii c) = iii d) = v
35. Country  
a) = i b) = ii c) = iv d) = v

**Translate the following English sentence into Kannada sentence :**

36. Who are they?  
a) Neenu yaaru b) Avaru yaaru c) Neenu yelli d) Avaru Enu
37. What is her Name?  
a) Avalu yaru b) Avana hesarenu  
c) Avala hesarenu d) Ninna hesarenu
38. This is my Nation  
a) Idu Avara desha b) Idu Nanna desha  
c) Adu Ninna desha d) Idu Ninna desha
39. What is your name?  
a) Avala Hesaru Enu? b) Avana Hesaru Enu?  
c) Ninna Hesaru Enu? d) Nanna Hesaru Enu?
40. This is my pen.  
a) Idu nanna pustaka b) Idu Avara vastu  
c) Idu Avara Lekhani d) Idu Nanna Lekhani

**Fill in the blank for the given English words into Kannada meaning :**

41. Small  
a) Udda b) agala c) Dappa d) Chikka
42. Salty  
a) huLi b) Uppu c) Khara d) Sihi
43. Simple  
a) Khatina b) Tappu c) Sarala d) Khasagi
44. Daily  
a) Nale b) Nenne c) Nadiddu d) Dina Nitya

45. Dignity  
a) Samasye b) Ghanathe c) Sari d) Olleya

**Write the Kannada Vocabulary for the following English words :**

46. Child \_\_\_\_\_  
a) navu b) Avaru c) Magu d) vidyarthi
47. Plant \_\_\_\_\_  
a) Mara b) Gida c) Hoova d) Rembe
48. Story \_\_\_\_\_  
a) Kate b) Angadi c) Mane d) Kavana
49. Where \_\_\_\_\_  
a) Enu b) Eke c) yaaru d) Elli
50. Bad \_\_\_\_\_  
a) hosa b) Naataka c) Ketta d) Olleya

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Question Paper Version : B

**First/Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025  
Balake Kannada**

Time: 1 hr.]

[Max. Marks: 50

## INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.**

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**Translate the following English sentence into Kannada sentence :**

1. Who are they?  
a) Neenu yaaru      b) Avaru yaaru      c) Neenu yelli      d) Avaru Enu
2. What is her Name?  
a) Avalu yaru      b) Avana hesarenu  
c) Avala hesarenu      d) Ninna hesarenu
3. This is my Nation  
a) Idu Avara desha      b) Idu Nanna desha  
c) Adu Ninna desha      d) Idu Ninna desha
4. What is your name?  
a) Avala Hesaru Enu?      b) Avana Hesaru Enu?  
c) Ninna Hesaru Enu?      d) Nanna Hesaru Enu?
5. This is my pen.  
a) Idu nanna pustaka      b) Idu Avara vastu  
c) Idu Avara Lekhani      d) Idu Nanna Lekhani

**Fill in the blank for the given English words into Kannada meaning :**

6. Small  
a) Udda      b) agala      c) Dappa      d) Chikka

7. Salty  
a) huLi b) Uppu c) Khara d) Sihi
8. Simple  
a) Khatina b) Tappu c) Sarala d) Khasagi
9. Daily  
a) Nale b) Nenne c) Nadiddu d) Dina Nitya
10. Dignity  
a) Samasye b) Ghanathe c) Sari d) Olleya

**Write the Kannada Vocabulary for the following English words :**

11. Child \_\_\_\_\_  
a) navu b) Avaru c) Magu d) vidyarthi
12. Plant \_\_\_\_\_  
a) Mara b) Gida c) Hoova d) Rembe
13. Story \_\_\_\_\_  
a) Kate b) Angadi c) Mane d) Kavana
14. Where \_\_\_\_\_  
a) Enu b) Eke c) yaaru d) Elli
15. Bad \_\_\_\_\_  
a) hosa b) Naataka c) Ketta d) Olleya

**Translate the following Kannada words into English :**

16. Maga  
a) Father b) Sister c) Daughter d) Son
17. Mane  
a) Temple b) House c) Church d) Hospital
18. Kempu BaNNa  
a) Black colour b) Red colour c) White colour d) Green colour

**Translate the following English words into Kannada :**

19. We  
a) Naavu b) Namma c) Namage d) Nimage
20. This  
a) Adu b) Alli c) Idu d) Both (a) and (b)
21. He  
a) Avanu b) Avalu c) Naanu d) Neenu

Match the following using Table given below :

a)	White	i)	Hudugi
b)	Girl	ii)	Sihi
c)	Daughter	iii)	Granthalaya
d)	Sweet	iv)	Bili
e)	Library	v)	Magalu

22. White  
a) = i                      b) = ii                      c) = iii                      d) = iv
23. Girl  
a) = i                      b) = ii                      c) = iii                      d) = v
24. Daughter  
a) = i                      b) = ii                      c) = iv                      d) = v
25. Sweet  
a) = i                      b) = ii                      c) = iii                      d) = iv
26. Library  
a) = i                      b) = ii                      c) = iii                      d) = iv

Write appropriate words for the following :

27. Mother  
a) Huduga                      b) Hudugi                      c) Tayi                      d) Tande
28. Festival  
a) Maduve                      b) Habba                      c) Mane                      d) Raste
29. Bitter  
a) Sihi                      b) Khara                      c) Uppu                      d) Kahi
30. Holiday  
a) Mara                      b) Raje                      c) Nagu                      d) Ooru
31. Town  
a) Halli                      b) Angadi                      c) Nagara                      d) Rajya

Translate the following Kannada words as per the given model [Q.No. 32 and 33]  
Example : Kacheri – Kacheriyalli.

32. Mane  
a) Manadalli                      b) Maneyinda                      c) Maneyalli                      d) Mane
33. Angadi  
a) Angadiyalli                      b) Angadihattira                      c) Angadiyage                      d) Angadiyolage
34. How would you write “This is my Book” in Kannada?  
a) Adu Nanna pustaka                      b) idu nanna pustaka  
c) Idu Avaru pustaka                      d) idu nannadu

35. How would you write “what is this” in Kannada?  
a) Idu elli                      b) Idu yarige                      c) Idu yavudu                      d) Idu Avaradu
36. How would you write Fruit in Kannada  
a) Hoovu                      b) Ele                      c) HaNNu                      d) BaNNa
37. How would you write “why sir” in Kannada?  
a) Elli sir                      b) Yaake Saar                      c) Hogi Saar                      d) Banni Saar
38. What is the meaning of “Student” in Kannada?  
a) Huduga                      b) Vidyarthi                      c) Jana                      d) Shale
39. How would you write “don’t” in Kannada?  
a) Beku                      b) Beke                      c) Beda                      d) Yaake
40. How would you write “Marriage” in Kannada?  
a) Habba                      b) Maduve                      c) Sabe                      d) Prarthane

**Write the English word for the following :**

41. Chikka  
a) Big                      b) Huge                      c) Small                      d) House
42. PaaTa  
a) Story                      b) Lesson                      c) Book                      d) Drink
43. aNNa  
a) Sister                      b) Mother                      c) Father                      d) Brother
44. Ketta  
a) Good                      b) Bad                      c) New                      d) Big
45. Huduga  
a) Son                      b) Boy                      c) Daughter                      d) Sister

**Match the following using the Table given below :**

a)	Fruit	i)	Vaidya
b)	Tree	ii)	Desha
c)	Flower	iii)	Mara
d)	Doctor	iv)	Hannu
e)	Country	v)	Hoovu

46. Fruit  
a) = i                      b) = ii                      c) = iii                      d) = iv
47. Tree  
a) = i                      b) = ii                      c) = iii                      d) = iv

48. Flower  
a) = i                      b) = iii                      c) = iv                      d) = v
49. Doctor  
a) = i                      b) = ii                      c) = iii                      d) = v
50. Country  
a) = i                      b) = ii                      c) = iv                      d) = v

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Question Paper Version : C

**First/Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025  
Balake Kannada**

Time: 1 hr.]

[Max. Marks: 50

## INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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**Write the English word for the following :**

1. Chikka  
a) Big                      b) Huge                      c) Small                      d) House
2. PaaTa  
a) Story                      b) Lesson                      c) Book                      d) Drink
3. aNNa  
a) Sister                      b) Mother                      c) Father                      d) Brother
4. Ketta  
a) Good                      b) Bad                      c) New                      d) Big
5. Huduga  
a) Son                      b) Boy                      c) Daughter                      d) Sister

Match the following using the Table given below :

a)	Fruit	i)	Vaidya
b)	Tree	ii)	Desha
c)	Flower	iii)	Mara
d)	Doctor	iv)	Hannu
e)	Country	v)	Hoovu

6. Fruit  
a) = i                      b) = ii                      c) = iii                      d) = iv
7. Tree  
a) = i                      b) = ii                      c) = iii                      d) = iv
8. Flower  
a) = i                      b) = iii                      c) = iv                      d) = v
9. Doctor  
a) = i                      b) = ii                      c) = iii                      d) = v
10. Country  
a) = i                      b) = ii                      c) = iv                      d) = v

Translate the following English sentence into Kannada sentence :

11. Who are they?  
a) Neenu yaaru                      b) Avaru yaaru                      c) Neenu yelli                      d) Avaru Enu
12. What is her Name?  
a) Avalu yaru                      b) Avana hesarenu  
c) Avala hesarenu                      d) Ninna hesarenu
13. This is my Nation  
a) Idu Avara desha                      b) Idu Nanna desha  
c) Adu Ninna desha                      d) Idu Ninna desha
14. What is your name?  
a) Avala Hesaru Enu?                      b) Avana Hesaru Enu?  
c) Ninna Hesaru Enu?                      d) Nanna Hesaru Enu?
15. This is my pen.  
a) Idu nanna pustaka                      b) Idu Avara vastu  
c) Idu Avara Lekhani                      d) Idu Nanna Lekhani

Fill in the blank for the given English words into Kannada meaning :

16. Small  
a) Udda                      b) agala                      c) Dappa                      d) Chikka
17. Salty  
a) huLi                      b) Uppu                      c) Khara                      d) Sihi



18. Simple  
a) Khatina b) Tappu c) Sarala d) Khasagi
19. Daily  
a) Nale b) Nenne c) Nadiddu d) Dina Nitya
20. Dignity  
a) Samasye b) Ghanathe c) Sari d) Olleya

**Write the Kannada Vocabulary for the following English words :**

21. Child \_\_\_\_\_  
a) navu b) Avaru c) Magu d) vidyarthi
22. Plant \_\_\_\_\_  
a) Mara b) Gida c) Hoova d) Rembe
23. Story \_\_\_\_\_  
a) Kate b) Angadi c) Mane d) Kavana
24. Where \_\_\_\_\_  
a) Enu b) Eke c) yaaru d) Elli
25. Bad \_\_\_\_\_  
a) hosa b) Naataka c) Ketta d) Olleya

**Translate the following Kannada words into English :**

26. Maga  
a) Father b) Sister c) Daughter d) Son
27. Mane  
a) Temple b) House c) Church d) Hospital
28. Kempu BaNNa  
a) Black colour b) Red colour c) White colour d) Green colour

**Translate the following English words into Kannada :**

29. We  
a) Naavu b) Namma c) Namage d) Nimage
30. This  
a) Adu b) Alli c) Idu d) Both (a) and (b)
31. He  
a) Avanu b) Avalu c) Naanu d) Neenu

Match the following using Table given below :

a)	White	i)	Hudugi
b)	Girl	ii)	Sihi
c)	Daughter	iii)	Granthalaya
d)	Sweet	iv)	Bili
e)	Library	v)	Magalu

32. White  
a) = i                      b) = ii                      c) = iii                      d) = iv
33. Girl  
a) = i                      b) = ii                      c) = iii                      d) = v
34. Daughter  
a) = i                      b) = ii                      c) = iv                      d) = v
35. Sweet  
a) = i                      b) = ii                      c) = iii                      d) = iv
36. Library  
a) = i                      b) = ii                      c) = iii                      d) = iv

Write appropriate words for the following :

37. Mother  
a) Huduga                      b) Hudugi                      c) Tayi                      d) Tande
38. Festival  
a) Maduve                      b) Habba                      c) Mane                      d) Raste
39. Bitter  
a) Sihi                      b) Khara                      c) Uppu                      d) Kahi
40. Holiday  
a) Mara                      b) Raje                      c) Nagu                      d) Ooru
41. Town  
a) Halli                      b) Angadi                      c) Nagara                      d) Rajya

Translate the following Kannada words as per the given model [Q.No. 42 and 43]  
Example : Kacheri – Kacheriyalli.

42. Mane  
a) Manadalli                      b) Maneyinda                      c) Maneyalli                      d) Mane
43. Angadi  
a) Angadiyalli                      b) Angadihattira                      c) Angadiyage                      d) Angadiyolage

44. How would you write "This is my Book" in Kannada?  
a) Adu Nanna pustaka                      b) idu nanna pustaka  
c) Idu Avaru pustaka                      d) idu nannadu
45. How would you write "what is this" in Kannada?  
a) Idu elli                      b) Idu yarige                      c) Idu yavudu                      d) Idu Avaradu
46. How would you write Fruit in Kannada  
a) Hoovu                      b) Ele                      c) HaNNu                      d) BaNNa
47. How would you write "why sir" in Kannada?  
a) Elli sir                      b) Yaake Saar                      c) Hogi Saar                      d) Banni Saar
48. What is the meaning of "Student" in Kannada?  
a) Huduga                      b) Vidyarthi                      c) Jana                      d) Shale
49. How would you write "don't" in Kannada?  
a) Beku                      b) Beke                      c) Beda                      d) Yaake
50. How would you write "Marriage" in Kannada?  
a) Habba                      b) Maduve                      c) Sabe                      d) Prarthane

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Question Paper Version : D

**First/Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025  
Balake Kannada**

Time: 1 hr.]

[Max. Marks: 50

## INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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**Translate the following Kannada words as per the given model [Q.No. 1 and 2]  
Example : Kacheri – Kacheriyalli.**

1. Mane  
a) Manadalli      b) Maneyinda      c) Maneyalli      d) Mane
2. Angadi  
a) Angadiyalli      b) Angadihattira      c) Angadiyage      d) Angadiyolage
3. How would you write “This is my Book” in Kannada?  
a) Adu Nanna pustaka      b) idu nanna pustaka  
c) Idu Avaru pustaka      d) idu nannadu
4. How would you write “what is this” in Kannada?  
a) Idu elli      b) Idu yarige      c) Idu yavudu      d) Idu Avaradu
5. How would you write Fruit in Kannada  
a) Hoovu      b) Ele      c) HaNNu      d) BaNNa
6. How would you write “why sir” in Kannada?  
a) Elli sir      b) Yaake Saar      c) Hogi Saar      d) Banni Saar
7. What is the meaning of “Student” in Kannada?  
a) Huduga      b) Vidyarthi      c) Jana      d) Shale

8. How would you write “don’t” in Kannada?  
 a) Beku                      b) Beke                      c) Beda                      d) Yaake
9. How would you write “Marriage” in Kannada?  
 a) Habba                      b) Maduve                      c) Sabe                      d) Prarthane

**Write the English word for the following :**

10. Chikka  
 a) Big                      b) Huge                      c) Small                      d) House
11. PaaTa  
 a) Story                      b) Lesson                      c) Book                      d) Drink
12. aNNa  
 a) Sister                      b) Mother                      c) Father                      d) Brother
13. Ketta  
 a) Good                      b) Bad                      c) New                      d) Big
14. Huduga  
 a) Son                      b) Boy                      c) Daughter                      d) Sister

**Match the following using the Table given below :**

a)	Fruit	i)	Vaidya
b)	Tree	ii)	Desha
c)	Flower	iii)	Mara
d)	Doctor	iv)	Hannu
e)	Country	v)	Hoovu

15. Fruit  
 a) = i                      b) = ii                      c) = iii                      d) = iv
16. Tree  
 a) = i                      b) = ii                      c) = iii                      d) = iv
17. Flower  
 a) = i                      b) = iii                      c) = iv                      d) = v
18. Doctor  
 a) = i                      b) = ii                      c) = iii                      d) = v
19. Country  
 a) = i                      b) = ii                      c) = iv                      d) = v

**Translate the following English sentence into Kannada sentence :**

20. Who are they?  
 a) Neenu yaaru                      b) Avaru yaaru                      c) Neenu yelli                      d) Avaru Enu

21. What is her Name?  
 a) Avalu yaru  
 c) Avala hesarenu  
 b) Avana hesarenu  
 d) Ninna hesarenu
22. This is my Nation  
 a) Idu Avara desha  
 c) Adu Ninna desha  
 b) Idu Nanna desha  
 d) Idu Ninna desha
23. What is your name?  
 a) Avala Hesaru Enu?  
 c) Ninna Hesaru Enu?  
 b) Avana Hesaru Enu?  
 d) Nanna Hesaru Enu?
24. This is my pen.  
 a) Idu nanna pustaka  
 c) Idu Avara Lekhani  
 b) Idu Avara vastu  
 d) Idu Nanna Lekhani

**Fill in the blank for the given English words into Kannada meaning :**

25. Small  
 a) Udda  
 b) agala  
 c) Dappa  
 d) Chikka
26. Salty  
 a) huLi  
 b) Uppu  
 c) Khara  
 d) Sihi
27. Simple  
 a) Khatina  
 b) Tappu  
 c) Sarala  
 d) Khasagi
28. Daily  
 a) Nale  
 b) Nenne  
 c) Nadiddu  
 d) Dina Nitya
29. Dignity  
 a) Samasye  
 b) Ghanathe  
 c) Sari  
 d) Olleya

**Write the Kannada Vocabulary for the following English words :**

30. Child \_\_\_\_\_  
 a) navu  
 b) Avaru  
 c) Magu  
 d) vidyarthi
31. Plant \_\_\_\_\_  
 a) Mara  
 b) Gida  
 c) Hoova  
 d) Rembe
32. Story \_\_\_\_\_  
 a) Kate  
 b) Angadi  
 c) Mane  
 d) Kavana
33. Where \_\_\_\_\_  
 a) Enu  
 b) Eke  
 c) yaaru  
 d) Elli
34. Bad \_\_\_\_\_  
 a) hosa  
 b) Naataka  
 c) Ketta  
 d) Olleya

**Translate the following Kannada words into English :**

35. Maga  
a) Father                      b) Sister                      c) Daughter                      d) Son
36. Mane  
a) Temple                      b) House                      c) Church                      d) Hospital
37. Kempu BaNNa  
a) Black colour                      b) Red colour                      c) White colour                      d) Green colour

**Translate the following English words into Kannada :**

38. We  
a) Naavu                      b) Namma                      c) Namage                      d) Nimage
39. This  
a) Adu                      b) Alli                      c) Idu                      d) Both (a) and (b)
40. He  
a) Avanu                      b) Avalu                      c) Naanu                      d) Neenu

**Match the following using Table given below :**

a)	White	i)	Hudugi
b)	Girl	ii)	Sihi
c)	Daughter	iii)	Granthalaya
d)	Sweet	iv)	Bili
e)	Library	v)	Magalu

41. White  
a) = i                      b) = ii                      c) = iii                      d) = iv
42. Girl  
a) = i                      b) = ii                      c) = iii                      d) = v
43. Daughter  
a) = i                      b) = ii                      c) = iv                      d) = v
44. Sweet  
a) = i                      b) = ii                      c) = iii                      d) = iv
45. Library  
a) = i                      b) = ii                      c) = iii                      d) = iv

**Write appropriate words for the following :**

46. Mother  
a) Huduga                      b) Hudugi                      c) Tayi                      d) Tande



47. Festival  
a) Maduve                      b) Habba                      c) Mane                      d) Raste
48. Bitter  
a) Sihi                      b) Khara                      c) Uppu                      d) Kahi
49. Holiday  
a) Mara                      b) Raje                      c) Nagu                      d) Ooru
50. Town  
a) Halli                      b) Angadi                      c) Nagara                      d) Rajya

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First/Second Semester B.E/B.Tech. Degree Examination, Dec.2024/Jan.2025

## ಸಂಸ್ಕೃತಿಕ ಕನ್ನಡ

(COMMON TO ALL BRANCHES)

Time: 1 hrs.]

[Max. Marks: 50

## ಸೂಚನೆಗಳು

1. ಎಲ್ಲ ಜಿಂ ಪ್ರಶ್ನೆಗಳಿಗೂ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ಅಂಕ.
2. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಯು.ಎಸ್.ಎನ್ ಸಂಖ್ಯೆ ಹಾಗೂ ಪಶ್ಚಿಮ ಪತ್ರಿಕೆಯ ಶ್ರೇಣಿಯನ್ನು ಅಂದರೆ A, B, C ಅಥವಾ D ಯನ್ನು ತಪ್ಪಿಲ್ಲದಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಗುರುತಿಸುವುದು ಅಭ್ಯರ್ಥಿಯ ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ.
3. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ನಿಗದಿಪಡಿಸಿರುವ ಸ್ಥಳದಲ್ಲಿ ಭರ್ತಿಮಾಡದೆ ಹಾಗೆಯೇ ಬಿಟ್ಟಲ್ಲಿ ಅಥವಾ ಭರ್ತಿಮಾಡಿದ ಮಾಹಿತಿಯಲ್ಲಿ ಯಾವುದೇ ವ್ಯತ್ಯಾಸವಿದ್ದಲ್ಲಿ ಅಂತಹ ಉತ್ತರ ಪತ್ರಿಕೆಗಳನ್ನು ರದ್ದು ಪಡಿಸಲಾಗುವುದು.
4. ಕೇವಲ ಒಂದು ಉತ್ತರವನ್ನು ಮಾತ್ರ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಗುರುತಿಸತಕ್ಕದ್ದು. ಒಂದೆ ಪ್ರಶ್ನೆಗೆ ಎರಡು ಉತ್ತರವನ್ನು ಗುರುತಿಸುವುದು ಅಮಾನ್ಯ.
5. ಎಲ್ಲಾ ಉತ್ತರಗಳನ್ನು ನಿಮಗೆ ಒದಗಿಸಲಾದ ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯ ಹಾಳೆಯ ಮೇಲೆ ಕಪ್ಪು ಅಥವಾ ನೀಲಿ ಶಾಹಿಯ ಬಾಲ್‌ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಗುರುತು ಮಾಡಬೇಕು.

1. ಜೇಡರ ದಾಸಿಮಯ್ಯನವರ ಅಂಕಿತನಾಮ  
a) ಚನ್ನ b) ಶಿವಪ್ಪ c) ಗುಹೇಶ್ವರ d) ರಾಮನಾಥ.
2. ಆಲಿಸುವ ಅಥವಾ ಗ್ರಹಿಸುವ ಕೌಶಲ ಈ ವಾಕ್ಯದಲ್ಲಿರುವ ಷಷ್ಠಿ ವಿಭಕ್ತಿ ಯಾವುದು?  
a) ಆ b) ಎಲ್ಲಿ c) ಗೆ d) ದೆಸೆಯಿಂದ
3. ವಿನೋಬಾ ಭಾವೆಯವರು ಕನ್ನಡ ಲಿಪಿಯನ್ನು ಏನೆಂದು ಕರೆದಿದ್ದಾರೆ?  
a) ರಾಜರಾಣಿ b) ಲಿಪಿಗಳ ರಾಣಿ  
c) ಕನ್ನಡಭಾಷೆ d) ಕುಸುಮರಾಣಿ
4. ಥಾಮಸ್ ಮನ್ರೋವರ ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿ ಕಲೆಕ್ಟರ್ ಆಗಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಿದ್ದರು?  
a) ಬಾಗಲಕೋಟೆ b) ಬೆಳಗಾವಿ c) ಬೀದರ್ d) ಬಳ್ಳಾರಿ.
5. ಕಳೆದ ಪದದ ಸಮನಾರ್ಥಕ ಪದ  
a) ರಾಗಿ b) ಜೋಳ c) ಭತ್ತ d) ಗೋಧಿ

6. ಹಂಪ ನಾಗರಾಜಯ್ಯನವರ ಹುಟ್ಟಿದ ಸ್ಥಳ  
a) ಹಂಪ ಸಂದ್ರ b) ಮಂಡ್ಯ c) ಬಳ್ಳಾರಿ d) ಮೈಸೂರು.
7. ಕಬ್ಬಿಗರ ಕಾವ್ಯ ಕೃತಿಯನ್ನು ರಚಿಸಿದ ಕವಿ ಯಾರು?  
a) ಪಂಪ b) ರನ್ನ c) ಜನ್ನ d) ಅಂಡಯ್ಯ
8. ತಂತ್ರಜ್ಞಾನದ ಬೆಳವಣಿಗೆಯ ಫಲವಾಗಿ ಕನ್ನಡ ಭಾಷೆಗೆ ಸಾಕಷ್ಟು \_\_\_\_\_ ಪದಗಳು ಸೇರಿಕೊಂಡಿವೆ.  
a) ತೆಲಗು b) ತಮಿಳು c) ಇಂಗ್ಲೀಷ್ d) ಮಲಯಾಳಿ
9. ಶರಣರ ಚಳುವಳಿಗೆ ಪ್ರೇರಕ ಶಕ್ತಿಯಾಗಿ ನಿಂತ ಮಹಾ ಮಾನವತಾವಾದಿ.  
a) ಅಕ್ಕಮಹಾದೇವಿ b) ಆಯ್ದಕ್ಕಿಮಾರಯ್ಯ  
c) ಬಸವಣ್ಣ d) ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮ
10. ಭಕ್ತಿ ಪದದ ತದ್ಭವ ರೂಪ \_\_\_\_\_  
a) ಪ್ರಕೃತಿ b) ವಿಕೃತಿ c) ಸಂಸ್ಕೃತಿ d) ಭಕುತಿ
11. ವಿಷ್ಣುವ ಪದದ ಅರ್ಥ.  
a) ಕ್ರಾಂತಿ b) ಸ್ವರ್ಗ c) ಕವಿತೆ d) ಕಾರ್ಯ
12. ಶಿಶುನಾಳ ಷರೀಫರ ಪ್ರಕಾರ 'ಆಚಾರ' ಎಂದರೆ  
a) ಅವಿಗೆ ಅಥವಾ ಮುಚ್ಚಳ b) ಮಣ್ಣು  
c) ನೀರು d) ಮನ.
13. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಕಬ್ಬಿಣ ಮತ್ತು ಉಕ್ಕಿನ ಕಾರ್ಖಾನೆ ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿದೆ?  
a) ಮಂಡ್ಯ b) ಮಂಗಳೂರು  
c) ಮೈಸೂರು d) ಶಿವಮೊಗ್ಗ
14. ಗಾಂಧೀಜಿಯವರು ಯಾರನ್ನು "ಅನ್ನಬ್ರಹ್ಮ" ಎಂದು ಕರೆದಿದ್ದಾರೆ?  
a) ಕುವೆಂಪು  
b) ಸರ್. ಎಂ. ವಿಶ್ವೇಶ್ವರಯ್ಯ  
c) ಡಿ.ವಿ.ಜಿ  
d) ಅಕ್ಕಿಹೆಬ್ಬಾಳು ನರಸಿಂಹಮೂರ್ತಿ
15. ಯುಗಾದಿ ಕಥೆಯ ಲೇಖಕರು ಯಾರು?  
a) ಡಿ.ವಿ.ಜಿ b) ವಸುಧೇಂದ್ರ c) ಅ.ನ.ಕೃ d) ವಿ.ಕೃ.ಗೋಕಾಕ್

16. ಕಾಸಿಂಸಾಬರ ಮಗಳ ಹೆಸರೇನು?  
a) ಚಾಂದಿನಿ      b) ಹಂಸ      c) ರೇಖಾ      d) ರೂಪ.
17. ಹಸಿವಾದರೆ ಉರೂಳಿಗೆ ಭಿಕ್ಷಾನ್ನಗಳುಂಟು, ತೃಷೆಯಾದರೆ ಕೆರೆ ಬಾವಿ ಹಳ್ಳಗಳುಂಟು, ಶಯನಕ್ಕೆ ಹಾಳುದೇಗುಲಗಳುಂಟು, ಈ ವಚನವನ್ನು ರಚಿಸಿದವರು.  
a) ಅಕ್ಕಮಾಹಾದೇವಿ  
b) ಬಸವಣ್ಣ  
c) ರಾಮನಾಥ  
d) ಅಲ್ಲಮ ಪ್ರಭು
18. ವಿದ್ಯಾವರ್ಧಕ ಸಂಘವನ್ನು ಯಾವ ಕಾರಣಕ್ಕಾಗಿ ಸ್ಥಾಪಿಸಲಾಯಿತು.  
a) ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿಗಾಗಿ  
b) ದೇಶಕ್ಕಾಗಿ  
c) ಭಾಷೆಗಾಗಿ  
d) ಕರ್ನಾಟಕ ಏಕೀಕರಣಕ್ಕಾಗಿ
19. ತಲ್ಲಣಿಸದಿರು ಕಂಡ್ಯ ತಾಳು ಮನವೇ ಕೀರ್ತನೆಯ ಕೀರ್ತನಕಾರರು ಯಾರು?  
a) ಪುರಂದರದಾಸರು  
b) ಶ್ರೀರಂಗರು  
c) ಕನಕದಾಸರು  
d) ವೆಂಕಟಸುಬ್ಬಯ್ಯ
20. ವೀರರ ಜೀವನ ಸ್ಮಾರಕಗಳನ್ನು ಏನೆಂದು ಕರೆಯುವರು?  
a) ಸಿಡಿತಲೆ      b) ವೀರಗಲ್ಲು      c) ಮಾಸ್ತಿಗಲ್ಲು      d) ಬರಹದಕಲ್ಲು
21. ಹಂಪನಾಗರಾಜಯ್ಯನವರು ಹುಟ್ಟಿದ ವರ್ಷ.  
a) 1936      b) 1946      c) 1947      d) 1935
22. ಕನ್ನಡ ಬರಹಗಳಿಗೆ \_\_\_\_\_ ವರ್ಷಗಳ ಇತಿಹಾಸವಿದೆ.  
a) 1956      b) 1884      c) 1956      d) 1500
23. ಹುಲ್ಲಾಗು ಬೆಟ್ಟದಡಿ ಮನೆಗೆ \_\_\_\_\_ ಆಗು.  
a) ಸಂಪಿಗೆ      b) ಮಲ್ಲಿಗೆ      c) ಇಂಪಿಗೆ      d) ತಂಪಿಗೆ
24. ಶಿಶುನಾಳ ಷರೀಫರ ಪ್ರಕಾರ ಕುಂಬಾರನಿಗೆ ಚಿನ್ನ ಎಂದರೆ.  
a) ಬಂಗಾರ      b) ಮಣ್ಣು      c) ತೋಟ      d) ಕಾರ್ಯ

25. ಪಥ ಪದದ ಅರ್ಥ.
- a) ರಕ್ತ                      b) ಸ್ವರ್ಗ ಜೀವನ                      c) ದಾರಿ                      d) ಜ್ಞಾನಿ
26. ಜನಪದ ಅಕಾಡೆಮಿಯ ಅಧ್ಯಕ್ಷರು \_\_\_\_\_
- a) ಹುಚ್ಚಪ್ಪ ಮಾಸ್ತರ  
b) ಶ್ರೀ,ಎಸ್,ಕೆ.ಕರೀಂಖಾನ್  
c) ಹಿ.ಚಿ.ಬೋರಲಿಂಗಯ್ಯ  
d) ಶ್ರೀನಿವಾಸಮೂರ್ತಿ
27. ಕವಿರಾಜಮಾರ್ಗದಲ್ಲಿ \_\_\_\_\_ ಅವರನ್ನು ಕುರಿತು ವರ್ಣಿಸಲಾಗಿದೆ?
- a) ತಮಿಳರು                      b) ಕೇರಳಿಗರು                      c) ಕನ್ನಡಿಗರು                      d) ಮರಾಠಿಗರು
28. ಕನ್ನಡ ಭಾಷೆಗೆ ಎಷ್ಟು ಪ್ರಮುಖ ಕೌಶಲ್ಯಗಳಿವೆ?
- a) 10                      b) 20                      c) 4                      d) 8.
29. ವಚನ ಎಂದರೆ \_\_\_\_\_.
- a) ಮಾತು                      b) ಸಮಾಜ                      c) ಭಾಷೆ                      d) ದೇಶ
30. ಸುಂಕ ಪದದ ಅರ್ಥ.
- a) ಕಾಸು                      b) ಆಣಿ                      c) ತೆರಿಗೆ                      d) ನೋವು.
31. ಕಳ್ಳಗಂಜಿ \_\_\_\_\_ ಹೊಕ್ಕಡೆ ಹುಲಿ ತಿಂಬುದ ಮಾಬುದೇ?
- a) ಮನೆ                      b) ಕಾಡು                      c) ಸ್ಮಶಾನ                      d) ಹುತ್ತ.
32. ಕರಿ ಘನ \_\_\_\_\_ ಕಿರಿದೆನ್ನಬಹುದೆ ಬಾರದಯ್ಯ.
- a) ಜ್ಯೋತಿ                      b) ನೆನಪು                      c) ಮರೆವು                      d) ಅಂಕುಶ.
33. ತೊರೆಯೊಳು \_\_\_\_\_ ದುರಿತ ಪೋಗುವುದೆ?
- a) ಮಿಂದರೆ                      b) ಹಾಡಿದರೆ                      c) ಕುಣಿದರೆ                      d) ಮರೆತರೆ.
34. ಪವಳದ ಲತೆಗೆ \_\_\_\_\_ ಇಟ್ಟವರು ಯಾರು ?
- a) ಕಪ್ಪು                      b) ಹಸಿರು                      c) ಚಿತ್ರ                      d) ಕೆಂಪು.
35. ಬ್ರಹ್ಮಾಡವನ್ನೆಲ್ಲ ಯಾರು ತುಂಬಿಕೊಂಡಿದ್ದಾರೆಂದು ಶರೀಫರು ಹೇಳಿದ್ದಾರೆ?
- a) ಕುಂಬಾರ                      b) ಬಡಿಗ                      c) ಕುಂಬಾರಕಿ                      d) ಗಾಣತಿ

36. ಎಷ್ಟು ಕಾಸಿಗೆ ಕುಂಬಾರಕಿ ಒಂದು ಕುಡಕಿಯನ್ನು ಮಾರುವಳು?  
a) 3 b) 6 c) 9 d) 10
37. ನಗುವು ಸಹಜದ ಧರ್ಮ ನಗಿಸುವುದು \_\_\_\_  
a) ಪರಧರ್ಮ b) ಅಧರ್ಮ c) ಧರ್ಮ d) ಮನುಷ್ಯ ಧರ್ಮ
38. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಅವರ ತವರೂರು ಯಾವುದು?  
a) ರಾಣೆಬೆನ್ನೂರು b) ಮಂಡ್ಯ c) ಮೈಸೂರು d) ಮುದ್ದೇನಹಳ್ಳಿ
39. ಗ್ರಂಥಕರ್ತರ ಸಮ್ಮೇಳನವು \_\_\_\_ ರಲ್ಲಿ ನಡೆಯಿತು.  
a) 1977 b) 1907 c) 1970 d) 1974.
40. ಭಾರತ ಸರ್ಕಾರವು ಕನ್ನಡ ಭಾಷೆಯನ್ನು \_\_\_\_ ಎಂದು ಘೋಷಿಸಿದೆ.  
a) ಶಾಸ್ತ್ರೀಯ ಭಾಷೆ  
b) ಕನ್ನಡಭಾಷೆ  
c) ತ್ರಿಭಾಷೆ  
d) ಲಿಪಿ.
41. ವಸುಧೇಂದ್ರರವರು ಬರೆದ ಕಾದಂಬರಿ ಇದಾಗಿದೆ.  
a) ಮನೀಷೆ b) ಕೃತಿ c) ಕರ್ತೃ d) ಸಂಕಲನ
42. ಪ್ರಹ್ಲಾದ \_\_\_\_ ಇಂಜಿನಿಯರ್.  
a) ಸಾಫ್ಟ್‌ವೇರ್ b) ಇಂಜಿನಿಯರ್ c) ಸಿವಿಲ್ ಇಂಜಿನಿಯರ್ d) ಮೆಕಾನಿಕ್
43. ವಿಜಯನಗರ ಸಾಮ್ರಾಜ್ಯದ ರಾಜಧಾನಿ  
a) ಹಂಪೆ b) ಬೆಲೂರು c) ಹಳೇಬೀಡು d) ಕೋಲಾರ
44. ನಮ್ಮ ರಾಜ್ಯದಲ್ಲಿ \_\_\_\_ ಸೂತ್ರ ಬಳಕೆಯಲ್ಲಿದೆ.  
a) ಏಕಭಾಷಾ b) ದ್ವಿಭಾಷಾ c) ತ್ರಿಭಾಷಾ d) ಭಾಷಾ
45. ಧರ್ಮಸಹಿಷ್ಣುತೆ ಬಗ್ಗೆ ಹೇಳುವ ಶಾಸನ \_\_\_\_  
a) ಹಳೇಬೀಡು b) ಬೆಲೂರು c) ಹಂಪಿ d) ಹಾಸನ
46. ಬುಕ್ಕರಾಯನ ಕಾಲ ಸರಿಸುಮಾರು \_\_\_\_ ವರ್ಷ.  
a) 1368 b) 1468 c) 1568 d) 1668.

47. ಕುರುಡು ಕಾಂಚಾಣ ಪದ್ಯದ ಕವಿ.

a) ಕುವೆಂಪು

b) ದ.ರಾ.ಬೇಂದ್ರೆ

c) ಡಿ.ವಿ.ಜಿ

d) ಗೋಕಾಕ್

48. ಯುಗಾದಿ ಕಥೆಯಲ್ಲಿ ಯಾರನ್ನು 'ಖಡಕ್' ಮಾಸ್ತರ ಎಂದು ಕರೆಯಲಾಗಿದೆ.

a) ಗೋಪಣ್ಣ

b) ಪ್ರಹ್ಲಾದ

c) ಇಸ್ಮಾಯಿಲ್

d) ಕಾಸಿಂಸಾಬ್

49. ಯದ್ಧದಲ್ಲಿ ಗೆದ್ದು ಬಂದರೆ ಕೀರ್ತಿ, ಸತ್ತರೆ \_\_\_\_\_

a) ನರಕ

b) ಹಣ

c) ಪ್ರಶಸ್ತಿ

d) ಸ್ವರ್ಗ

50. ಹಲವು ಕಾಲ ಕಲ್ಲು ನೀರೊಳಗಿದ್ದರೇನು? ಬಲುನೆನೆದು \_\_\_\_\_ ಆಗುವುದೆ.

a) ಅಮೃತಶಿಲೆ

b) ಹವಳ

c) ಕಪ್ಪೆ

d) ನಿಧಿ.

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First/Second Semester B.E/B.Tech. Degree Examination, Dec.2024/Jan.2025

## ಸಂಸ್ಕೃತಿಕ ಕನ್ನಡ

(COMMON TO ALL BRANCHES)

Time: 1 hrs.]

[Max. Marks: 50

## ಸೂಚನೆಗಳು

1. ಎಲ್ಲ ಜಿಂ ಪ್ರಶ್ನೆಗಳಿಗೂ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ಅಂಕ.
2. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಯು.ಎಸ್.ಎನ್ ಸಂಖ್ಯೆ ಹಾಗೂ ಪಶ್ಚಿಮ ಪತ್ರಿಕೆಯ ಶ್ರೇಣಿಯನ್ನು ಅಂದರೆ A, B, C ಅಥವಾ D ಯನ್ನು ತಪ್ಪಿಲ್ಲದಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಗುರುತಿಸುವುದು ಅಭ್ಯರ್ಥಿಯ ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ.
3. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ನಿಗದಿಪಡಿಸಿರುವ ಸ್ಥಳದಲ್ಲಿ ಭರ್ತಿಮಾಡದೆ ಹಾಗೆಯೇ ಬಿಟ್ಟಲ್ಲಿ ಅಥವಾ ಭರ್ತಿಮಾಡಿದ ಮಾಹಿತಿಯಲ್ಲಿ ಯಾವುದೇ ವ್ಯತ್ಯಾಸವಿದ್ದಲ್ಲಿ ಅಂತಹ ಉತ್ತರ ಪತ್ರಿಕೆಗಳನ್ನು ರದ್ದು ಪಡಿಸಲಾಗುವುದು.
4. ಕೇವಲ ಒಂದು ಉತ್ತರವನ್ನು ಮಾತ್ರ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಗುರುತಿಸತಕ್ಕದ್ದು. ಒಂದೆ ಪ್ರಶ್ನೆಗೆ ಎರಡು ಉತ್ತರವನ್ನು ಗುರುತಿಸುವುದು ಅಮಾನ್ಯ.
5. ಎಲ್ಲಾ ಉತ್ತರಗಳನ್ನು ನಿಮಗೆ ಒದಗಿಸಲಾದ ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯ ಹಾಳೆಯ ಮೇಲೆ ಕಪ್ಪು ಅಥವಾ ನೀಲಿ ಶಾಹಿಯ ಬಾಲ್‌ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಗುರುತು ಮಾಡಬೇಕು.

1. ವಸುಧೇಂದ್ರರವರು ಬರೆದ ಕಾದಂಬರಿ ಇದಾಗಿದೆ.  
a) ಮನೀಷೆ b) ಕೃತಿ c) ಕರ್ತೃ d) ಸಂಕಲನ
2. ಪ್ರಹ್ಲಾದ \_\_\_\_\_ ಇಂಜಿನಿಯರ್.  
a) ಸಾಫ್ಟ್‌ವೇರ್ b) ಇಂಜಿನಿಯರ್ c) ಸಿವಿಲ್ ಇಂಜಿನಿಯರ್ d) ಮೆಕಾನಿಕ್
3. ವಿಜಯನಗರ ಸಾಮ್ರಾಜ್ಯದ ರಾಜಧಾನಿ  
a) ಹಂಪಿ b) ಬೇಲೂರು c) ಹಳೇಬೀಡು d) ಕೋಲಾರ
4. ನಮ್ಮ ರಾಜ್ಯದಲ್ಲಿ \_\_\_\_\_ ಸೂತ್ರ ಬಳಕೆಯಲ್ಲಿದೆ.  
a) ಏಕಭಾಷಾ b) ದ್ವಿಭಾಷಾ c) ತ್ರಿಭಾಷಾ d) ಭಾಷಾ
5. ಧರ್ಮಸಹಿಷ್ಣುತೆ ಬಗ್ಗೆ ಹೇಳುವ ಶಾಸನ \_\_\_\_\_  
a) ಹಳೇಬೀಡು b) ಬೇಲೂರು c) ಹಂಪಿ d) ಹಾಸನ

6. ಬುಕ್ಕರಾಯನ ಕಾಲ ಸರಿಸುಮಾರು \_\_\_\_ ವರ್ಷ.
- a) 1368                      b) 1468                      c) 1568                      d) 1668.
7. ಕುರುಡು ಕಾಂಚಾಣ ಪದ್ಯದ ಕವಿ.
- a) ಕುವೆಂಪು                      b) ದ.ರಾ.ಬೇಂದ್ರೆ  
c) ಡಿ.ವಿ.ಜಿ                      d) ಗೋಕಾಕ್
8. ಯುಗಾದಿ ಕಥೆಯಲ್ಲಿ ಯಾರನ್ನು 'ಖಡಕ್' ಮಾಸ್ತರ ಎಂದು ಕರೆಯಲಾಗಿದೆ.
- a) ಗೋಪಣ್ಣ                      b) ಪ್ರಹ್ಲಾದ  
c) ಇಸ್ಮಾಯಿಲ್                      d) ಕಾಸಿಂಸಾಬ್
9. ಯದ್ಧದಲ್ಲಿ ಗೆದ್ದು ಬಂದರೆ ಕೀರ್ತಿ, ಸತ್ತರೆ \_\_\_\_
- a) ನರಕ                      b) ಹಣ                      c) ಪ್ರಶಸ್ತಿ                      d) ಸ್ವರ್ಗ
10. ಹಲವು ಕಾಲ ಕಲ್ಲು ನೀರೊಳಗಿದ್ದರೇನು? ಬಲುನೆನೆದು \_\_\_\_ ಆಗುವುದೆ.
- a) ಅಮೃತಶಿಲೆ                      b) ಹವಳ                      c) ಕಪ್ಪೆ                      d) ನಿಧಿ.
11. ಕಳ್ಳಗಂಜಿ \_\_\_\_ ಹೊಕ್ಕಡೆ ಹುಲಿ ತಿಂಬುದ ಮಾಬುದೇ?
- a) ಮನೆ                      b) ಕಾಡು                      c) ಸ್ಮಶಾನ                      d) ಹುತ್ತ.
12. ಕರಿ ಘನ \_\_\_\_ ಕಿರಿದೆನ್ನಬಹುದೆ ಬಾರದಯ್ಯ.
- a) ಜ್ಯೋತಿ                      b) ನೆನಪು                      c) ಮರೆವು                      d) ಅಂಕುಶ.
13. ತೊರೆಯೊಳು \_\_\_\_ ದುರಿತ ಪೋಗುವುದೆ?
- a) ಮಿಂದರೆ                      b) ಹಾಡಿದರೆ                      c) ಕುಣಿದರೆ                      d) ಮರೆತರೆ.
14. ಪವಳದ ಲತೆಗೆ \_\_\_\_ ಇಟ್ಟವರು ಯಾರು ?
- a) ಕಪ್ಪು                      b) ಹಸಿರು                      c) ಚಿತ್ರ                      d) ಕೆಂಪು.
15. ಬ್ರಹ್ಮಾಡವನ್ನೆಲ್ಲ ಯಾರು ತುಂಬಿಕೊಂಡಿದ್ದಾರೆಂದು ಶರೀಫರು ಹೇಳಿದ್ದಾರೆ?
- a) ಕುಂಬಾರ                      b) ಬಡಗಿ                      c) ಕುಂಬಾರಕಿ                      d) ಗಾಣತಿ
16. ಎಷ್ಟು ಕಾಸಿಗೆ ಕುಂಬಾರಕಿ ಒಂದು ಕುಡಕಿಯನ್ನು ಮಾರುವಳು?
- a) 3                      b) 6                      c) 9                      d) 10
17. ನಗುವು ಸಹಜದ ಧರ್ಮ ನಗಿಸುವುದು \_\_\_\_
- a) ಪರಧರ್ಮ                      b) ಅಧರ್ಮ                      c) ಧರ್ಮ                      d) ಮನುಷ್ಯ ಧರ್ಮ

18. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಅವರ ತವರೂರು ಯಾವುದು?  
 a) ರಾಣಿಬೆನ್ನೂರು      b) ಮಂಡ್ಯ      c) ಮೈಸೂರು      d) ಮುದ್ದೇನಹಳ್ಳಿ
19. ಗ್ರಂಥಕರ್ತರ ಸಮ್ಮೇಳನವು \_\_\_\_ ರಲ್ಲಿ ನಡೆಯಿತು.  
 a) 1977      b) 1907      c) 1970      d) 1974.
20. ಭಾರತ ಸರ್ಕಾರವು ಕನ್ನಡ ಭಾಷೆಯನ್ನು \_\_\_\_\_ ಎಂದು ಘೋಷಿಸಿದೆ.  
 a) ಶಾಸ್ತ್ರೀಯ ಭಾಷೆ  
 b) ಕನ್ನಡಭಾಷೆ  
 c) ತ್ರಿಭಾಷೆ  
 d) ಲಿಪಿ.
21. ವಿಫಲವಾದ ಪದದ ಅರ್ಥ.  
 a) ಕ್ರಾಂತಿ      b) ಸ್ವರ್ಗ      c) ಕವಿತೆ      d) ಕಾರ್ಯ
22. ಶಿಶುನಾಳ ಷರೀಫರ ಪ್ರಕಾರ 'ಆಚಾರ' ಎಂದರೆ  
 a) ಆವಿಗೆ ಅಥವಾ ಮುಚ್ಚಳ      b) ಮಣ್ಣು  
 c) ನೀರು      d) ಮನ.
23. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಕಬ್ಬಿಣ ಮತ್ತು ಉಕ್ಕಿನ ಕಾರ್ಖಾನೆ ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿದೆ?  
 a) ಮಂಡ್ಯ      b) ಮಂಗಳೂರು  
 c) ಮೈಸೂರು      d) ಶಿವಮೊಗ್ಗ
24. ಗಾಂಧೀಜಿಯವರು ಯಾರನ್ನು "ಅನ್ವಬ್ರಹ್ಮ" ಎಂದು ಕರೆದಿದ್ದಾರೆ?  
 a) ಕುವೆಂಪು  
 b) ಸರ್. ಎಂ. ವಿಶ್ವೇಶ್ವರಯ್ಯ  
 c) ಡಿ.ವಿ.ಜಿ  
 d) ಅಕ್ಕಿಹೆಬ್ಬಾಳು ನರಸಿಂಹಮೂರ್ತಿ
25. ಯುಗಾದಿ ಕಥೆಯ ಲೇಖಕರು ಯಾರು?  
 a) ಡಿ.ವಿ.ಜಿ      b) ವಸುಧೇಂದ್ರ      c) ಅ.ನ.ಕೃ      d) ವಿ.ಕೃ.ಗೋಕಾಕ್
26. ಕಾಸಿಂಸಾಬರ ಮಗಳ ಹೆಸರೇನು?  
 a) ಚಾಂದಿನಿ      b) ಹಂಸ      c) ರೇಖಾ      d) ರೂಪ.

27. ಹಸಿವಾದರೆ ಉರೂಗಳಿಗೆ ಭಿಕ್ಷಾನ್ನಗಳುಂಟು, ತೃಷೆಯಾದರೆ ಕೆರೆ ಬಾವಿ ಹಳ್ಳಗಳುಂಟು, ಶಯನಕ್ಕೆ ಹಾಳುದೇಗುಲಗಳುಂಟು, ಈ ವಚನವನ್ನು ರಚಿಸಿದವರು.
- ಅಕ್ಕಮಾಹಾದೇವಿ
  - ಬಸವಣ್ಣ
  - ರಾಮನಾಥ
  - ಅಲ್ಲಮ ಪ್ರಭು
28. ವಿದ್ಯಾವರ್ಧಕ ಸಂಘವನ್ನು ಯಾವ ಕಾರಣಕ್ಕಾಗಿ ಸ್ಥಾಪಿಸಲಾಯಿತು.
- ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿಗಾಗಿ
  - ದೇಶಕ್ಕಾಗಿ
  - ಭಾಷೆಗಾಗಿ
  - ಕರ್ನಾಟಕ ಏಕೀಕರಣಕ್ಕಾಗಿ
29. ತಲ್ಲಣಿಸದಿರು ಕಂಡ್ಯ ತಾಳು ಮನವೇ ಕೀರ್ತನೆಯ ಕೀರ್ತನಕಾರರು ಯಾರು?
- ಪುರಂದರದಾಸರು
  - ಶ್ರೀರಂಗರು
  - ಕನಕದಾಸರು
  - ವೆಂಕಟಸುಬ್ಬಯ್ಯ
30. ವೀರರ ಜೀವನ ಸ್ಮಾರಕಗಳನ್ನು ಏನೆಂದು ಕರೆಯುವರು?
- ಸಿಡಿತಲೆ
  - ವೀರಗಲ್ಲು
  - ಮಾಸ್ತಿಗಲ್ಲು
  - ಬರಹದಕಲ್ಲು
31. ಜೇಡರ ದಾಸಿಮಯ್ಯನವರ ಅಂಕಿತನಾಮ
- ಚನ್ನ
  - ಶಿವಪ್ಪ
  - ಗುಹೇಶ್ವರ
  - ರಾಮನಾಥ.
32. ಆಲಿಸುವ ಅಥವಾ ಗ್ರಹಿಸುವ ಕೌಶಲ ಈ ವಾಕ್ಯದಲ್ಲಿರುವ ಷಷ್ಠಿ ವಿಭಕ್ತಿ ಯಾವುದು?
- ಆ
  - ಎಲ್ಲಿ
  - ಗೆ
  - ದೇಸೆಯಿಂದ
33. ವಿನೋಬಾ ಭಾವೆಯವರು ಕನ್ನಡ ಲಿಪಿಯನ್ನು ಏನೆಂದು ಕರೆದಿದ್ದಾರೆ?
- ರಾಜರಾಣಿ
  - ಲಿಪಿಗಳ ರಾಣಿ
  - ಕನ್ನಡಭಾಷೆ
  - ಕುಸುಮರಾಣಿ
34. ಥಾಮಸ್ ಮನ್ರೋವರ ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿ ಕಲೆಕ್ಟರ್ ಆಗಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಿದ್ದರು?
- ಬಾಗಲಕೋಟೆ
  - ಬೆಳಗಾವಿ
  - ಬೀದರ್
  - ಬಳ್ಳಾರಿ.

35. ಕಳೆದ ಪದದ ಸಮನಾರ್ಥಕ ಪದ  
a) ರಾಗಿ b) ಜೋಳ c) ಭತ್ತ d) ಗೋಧಿ
36. ಹಂಪ ನಾಗರಾಜಯ್ಯನವರ ಹುಟ್ಟಿದ ಸ್ಥಳ  
a) ಹಂಪೆ ಸಂದ್ರ b) ಮಂಡ್ಯ c) ಬಳ್ಳಾರಿ d) ಮೈಸೂರು.
37. ಕಬ್ಬಿಗರ ಕಾವ್ಯ ಕೃತಿಯನ್ನು ರಚಿಸಿದ ಕವಿ ಯಾರು?  
a) ಪಂಪ b) ರನ್ನ c) ಜನ್ನ d) ಅಂಡಯ್ಯ
38. ತಂತ್ರಜ್ಞಾನದ ಬೆಳವಣಿಗೆಯ ಫಲವಾಗಿ ಕನ್ನಡ ಭಾಷೆಗೆ ಸಾಕಷ್ಟು \_\_\_\_\_ ಪದಗಳು ಸೇರಿಕೊಂಡಿವೆ.  
a) ತೆಲಗು b) ತಮಿಳು c) ಇಂಗ್ಲೀಷ್ d) ಮಲಯಾಳಿ
39. ಶರಣರ ಚಳುವಳಿಗೆ ಪ್ರೇರಕ ಶಕ್ತಿಯಾಗಿ ನಿಂತ ಮಹಾ ಮಾನವತಾವಾದಿ.  
a) ಅಕ್ಕಮಹಾದೇವಿ b) ಆಯ್ದಕ್ಕಿಮಾರಯ್ಯ  
c) ಬಸವಣ್ಣ d) ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮ
40. ಭಕ್ತಿ ಪದದ ತದ್ಭವ ರೂಪ \_\_\_\_\_  
a) ಪ್ರಕೃತಿ b) ವಿಕೃತಿ c) ಸಂಸ್ಕೃತಿ d) ಭಕುತಿ
41. ಹಂಪನಾಗರಾಜಯ್ಯನವರು ಹುಟ್ಟಿದ ವರ್ಷ.  
a) 1936 b) 1946 c) 1947 d) 1935
42. ಕನ್ನಡ ಬರಹಗಳಿಗೆ \_\_\_\_\_ ವರ್ಷಗಳ ಇತಿಹಾಸವಿದೆ.  
a) 1956 b) 1884 c) 1956 d) 1500
43. ಹುಲ್ಲಾಗು ಬೆಟ್ಟದಡಿ ಮನೆಗೆ \_\_\_\_\_ ಆಗು.  
a) ಸಂಪಿಗೆ b) ಮಲ್ಲಿಗೆ c) ಇಂಪಿಗೆ d) ತಂಪಿಗೆ
44. ಶಿಶುನಾಳ ಷರೀಫರ ಪ್ರಕಾರ ಕುಂಬಾರನಿಗೆ ಚಿನ್ನ ಎಂದರೆ.  
a) ಬಂಗಾರ b) ಮಣ್ಣು c) ತೋಟ d) ಕಾರ್ಯ
45. ಪಥ ಪದದ ಅರ್ಥ.  
a) ರಕ್ತ b) ಸ್ವರ್ಗ ಜೀವನ c) ದಾರಿ d) ಜ್ಞಾನಿ

46. ಜನಪದ ಅಕಾಡೆಮಿಯ ಅಧ್ಯಕ್ಷರು \_\_\_\_\_  
 a) ಹುಚ್ಚಪ್ಪ ಮಾಸ್ತರ  
 b) ಶ್ರೀ,ಎಸ್,ಕೆ.ಕರೀಂಖಾನ್  
 c) ಹಿ.ಚಿ.ಬೋರಲಿಂಗಯ್ಯ  
 d) ಶ್ರೀನಿವಾಸಮೂರ್ತಿ
47. ಕವಿರಾಜಮಾರ್ಗದಲ್ಲಿ \_\_\_\_\_ ಅವರನ್ನು ಕುರಿತು ವರ್ಣಿಸಲಾಗಿದೆ?  
 a) ತಮಿಳರು                      b) ಕೇರಳಿಗರು                      c) ಕನ್ನಡಿಗರು                      d) ಮರಾಠಿಗರು
48. ಕನ್ನಡ ಭಾಷೆಗೆ ಎಷ್ಟು ಪ್ರಮುಖ ಕೌಶಲ್ಯಗಳಿವೆ?  
 a) 10                      b) 20                      c) 4                      d) 8.
49. ವಚನ ಎಂದರೆ \_\_\_\_\_.  
 a) ಮಾತು                      b) ಸಮಾಜ                      c) ಭಾಷೆ                      d) ದೇಶ
50. ಸುಂಕ ಪದದ ಅರ್ಥ.  
 a) ಕಾಸು                      b) ಆಣೆ                      c) ತೆರಿಗೆ                      d) ನೋವು.

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First/Second Semester B.E/B.Tech. Degree Examination, Dec.2024/Jan.2025

## ಸಂಸ್ಕೃತಿಕ ಕನ್ನಡ

(COMMON TO ALL BRANCHES)

Time: 1 hrs.]

[Max. Marks: 50

## ಸೂಚನೆಗಳು

1. ಎಲ್ಲಾ ಜಿಂ ಪ್ರಶ್ನೆಗಳಿಗೂ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ಅಂಕ.
2. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಯು.ಎಸ್.ಎನ್ ಸಂಖ್ಯೆ ಹಾಗೂ ಪಶ್ಚಿಮ ಪತ್ರಿಕೆಯ ಶ್ರೇಣಿಯನ್ನು ಅಂದರೆ A, B, C ಅಥವಾ D ಯನ್ನು ತಪ್ಪಿಲ್ಲದಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಗುರುತಿಸುವುದು ಅಭ್ಯರ್ಥಿಯ ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ.
3. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ನಿಗದಿಪಡಿಸಿರುವ ಸ್ಥಳದಲ್ಲಿ ಭರ್ತಿಮಾಡದೆ ಹಾಗೆಯೇ ಬಿಟ್ಟಲ್ಲಿ ಅಥವಾ ಭರ್ತಿಮಾಡಿದ ಮಾಹಿತಿಯಲ್ಲಿ ಯಾವುದೇ ವ್ಯತ್ಯಾಸವಿದ್ದಲ್ಲಿ ಅಂತಹ ಉತ್ತರ ಪತ್ರಿಕೆಗಳನ್ನು ರದ್ದು ಪಡಿಸಲಾಗುವುದು.
4. ಕೇವಲ ಒಂದು ಉತ್ತರವನ್ನು ಮಾತ್ರ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಗುರುತಿಸತಕ್ಕದ್ದು. ಒಂದೆ ಪ್ರಶ್ನೆಗೆ ಎರಡು ಉತ್ತರವನ್ನು ಗುರುತಿಸುವುದು ಅಮಾನ್ಯ.
5. ಎಲ್ಲಾ ಉತ್ತರಗಳನ್ನು ನಿಮಗೆ ಒದಗಿಸಲಾದ ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯ ಹಾಳೆಯ ಮೇಲೆ ಕಪ್ಪು ಅಥವಾ ನೀಲಿ ಶಾಹಿಯ ಬಾಲ್‌ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಗುರುತು ಮಾಡಬೇಕು.

1. ಹಂಪನಾಗರಾಜಯ್ಯನವರು ಹುಟ್ಟಿದ ವರ್ಷ.  
a) 1936                      b) 1946                      c) 1947                      d) 1935
2. ಕನ್ನಡ ಬರಹಗಳಿಗೆ \_\_\_\_\_ ವರ್ಷಗಳ ಇತಿಹಾಸವಿದೆ.  
a) 1956                      b) 1884                      c) 1956                      d) 1500
3. ಹುಲ್ಲಾಗು ಬೆಟ್ಟದಡಿ ಮನೆಗೆ \_\_\_\_\_ ಆಗು.  
a) ಸಂಪಿಗೆ                      b) ಮಲ್ಲಿಗೆ                      c) ಇಂಪಿಗೆ                      d) ತಂಪಿಗೆ
4. ಶಿಶುನಾಳ ಷರೀಫರ ಪ್ರಕಾರ ಕುಂಬಾರನಿಗೆ ಚಿನ್ನ ಎಂದರೆ.  
a) ಬಂಗಾರ                      b) ಮಣ್ಣು                      c) ತೋಟ                      d) ಕಾರ್ಯ
5. ಪಥ ಪದದ ಅರ್ಥ.  
a) ರಕ್ತ                      b) ಸ್ವರ್ಗ ಜೀವನ                      c) ದಾರಿ                      d) ಜ್ಞಾನಿ

6. ಜನಪದ ಅಕಾಡೆಮಿಯ ಅಧ್ಯಕ್ಷರು \_\_\_\_\_  
 a) ಹುಚ್ಚಪ್ಪ ಮಾಸ್ತರ  
 b) ಶ್ರೀ.ಎಸ್.ಕೆ.ಕರೀಂಖಾನ್  
 c) ಹಿ.ಚಿ.ಬೋರಲಿಂಗಯ್ಯ  
 d) ಶ್ರೀನಿವಾಸಮೂರ್ತಿ
7. ಕವಿರಾಜಮಾರ್ಗದಲ್ಲಿ \_\_\_\_\_ ಅವರನ್ನು ಕುರಿತು ವರ್ಣಿಸಲಾಗಿದೆ?  
 a) ತಮಿಳರು                      b) ಕೇರಳಿಗರು                      c) ಕನ್ನಡಿಗರು                      d) ಮರಾಠಿಗರು
8. ಕನ್ನಡ ಭಾಷೆಗೆ ಎಷ್ಟು ಪ್ರಮುಖ ಕೌಶಲ್ಯಗಳಿವೆ?  
 a) 10                      b) 20                      c) 4                      d) 8.
9. ವಚನ ಎಂದರೆ \_\_\_\_\_.  
 a) ಮಾತು                      b) ಸಮಾಜ                      c) ಭಾಷೆ                      d) ದೇಶ
10. ಸುಂಕ ಪದದ ಅರ್ಥ.  
 a) ಕಾಸು                      b) ಆಣೆ                      c) ತೆರಿಗೆ                      d) ನೋವು.
11. ವಸುಧೇಂದ್ರವರರು ಬರೆದ ಕಾದಂಬರಿ ಇದಾಗಿದೆ.  
 a) ಮನೀಷೆ                      b) ಕೃತಿ                      c) ಕರ್ತೃ                      d) ಸಂಕಲನ
12. ಪ್ರಹ್ಲಾದ \_\_\_\_\_ ಇಂಜಿನಿಯರ್.  
 a) ಸಾಫ್ಟ್‌ವೇರ್                      b) ಇಂಜಿನಿಯರ್                      c) ಸಿವಿಲ್ ಇಂಜಿನಿಯರ್                      d) ಮೆಕಾನಿಕ್
13. ವಿಜಯನಗರ ಸಾಮ್ರಾಜ್ಯದ ರಾಜಧಾನಿ  
 a) ಹಂಪೆ                      b) ಬೇಲೂರು                      c) ಹಳೇಬೀಡು                      d) ಕೋಲಾರ
14. ನಮ್ಮ ರಾಜ್ಯದಲ್ಲಿ \_\_\_\_\_ ಸೂತ್ರ ಬಳಕೆಯಲ್ಲಿದೆ.  
 a) ಏಕಭಾಷಾ                      b) ದ್ವಿಭಾಷಾ                      c) ತ್ರಿಭಾಷಾ                      d) ಭಾಷಾ
15. ಧರ್ಮಸಹಿಷ್ಣುತೆ ಬಗ್ಗೆ ಹೇಳುವ ಶಾಸನ \_\_\_\_\_  
 a) ಹಳೇಬೀಡು                      b) ಬೇಲೂರು                      c) ಹಂಪಿ                      d) ಹಾಸನ
16. ಬುಕ್ಕರಾಯನ ಕಾಲ ಸರಿಸುಮಾರು \_\_\_\_\_ ವರ್ಷ.  
 a) 1368                      b) 1468                      c) 1568                      d) 1668.



17. ಕುರುಡು ಕಾಂಚಾಣ ಪದ್ಯದ ಕವಿ.  
 a) ಕುವೆಂಪು  
 b) ದ.ರಾ.ಬೇಂದ್ರೆ  
 c) ಡಿ.ವಿ.ಜಿ  
 d) ಗೋಕಾಕ್
18. ಯುಗಾದಿ ಕಥೆಯಲ್ಲಿ ಯಾರನ್ನು 'ಖಡಕ್' ಮಾಸ್ತರ ಎಂದು ಕರೆಯಲಾಗಿದೆ.  
 a) ಗೋಪಣ್ಣ  
 b) ಪ್ರಹ್ಲಾದ  
 c) ಇಸ್ಮಾಯಿಲ್  
 d) ಕಾಸಿಂಸಾಬ್
19. ಯದ್ಧದಲ್ಲಿ ಗೆದ್ದು ಬಂದರೆ ಕೀರ್ತಿ, ಸತ್ತರೆ \_\_\_\_\_  
 a) ನರಕ  
 b) ಹಣ  
 c) ಪ್ರಶಸ್ತಿ  
 d) ಸ್ವರ್ಗ
20. ಹಲವು ಕಾಲ ಕಲ್ಲು ನೀರೊಳಗಿದ್ದರೇನು? ಬಲುನೆನೆದು \_\_\_\_\_ ಆಗುವುದೆ.  
 a) ಅಮೃತಶಿಲೆ  
 b) ಹವಳ  
 c) ಕಪ್ಪೆ  
 d) ನಿಧಿ.
21. ಕಳ್ಳಗಂಜಿ \_\_\_\_\_ ಹೊಕ್ಕಡೆ ಹುಲಿ ತಿಂಬುದ ಮಾಬುದೇ?  
 a) ಮನೆ  
 b) ಕಾಡು  
 c) ಸ್ಮಶಾನ  
 d) ಹುತ್ತ.
22. ಕರಿ ಘನ \_\_\_\_\_ ಕಿರಿದೆನ್ನಬಹುದೆ ಬಾರದಯ್ಯ.  
 a) ಜ್ಯೋತಿ  
 b) ನೆನಪು  
 c) ಮರೆವು  
 d) ಅಂಕುಶ.
23. ತೊರೆಯೊಳು \_\_\_\_\_ ದುರಿತ ಪೋಗುವುದೆ?  
 a) ಮಿಂದರೆ  
 b) ಹಾಡಿದರೆ  
 c) ಕುಣಿದರೆ  
 d) ಮರೆತರೆ.
24. ಪವಳದ ಲತೆಗೆ \_\_\_\_\_ ಇಟ್ಟವರು ಯಾರು ?  
 a) ಕಪ್ಪು  
 b) ಹಸಿರು  
 c) ಚಿತ್ರ  
 d) ಕೆಂಪು.
25. ಬ್ರಹ್ಮಾಡವನ್ನೆಲ್ಲ ಯಾರು ತುಂಬಿಕೊಂಡಿದ್ದಾರೆಂದು ಶರೀಫರು ಹೇಳಿದ್ದಾರೆ?  
 a) ಕುಂಬಾರ  
 b) ಬಡಗಿ  
 c) ಕುಂಬಾರಕಿ  
 d) ಗಾಣತಿ
26. ಎಷ್ಟು ಕಾಸಿಗೆ ಕುಂಬಾರಕಿ ಒಂದು ಕುಡಕಿಯನ್ನು ಮಾರುವಳು?  
 a) 3  
 b) 6  
 c) 9  
 d) 10
27. ನಗುವು ಸಹಜದ ಧರ್ಮ ನಗಿಸುವುದು \_\_\_\_\_  
 a) ಪರಧರ್ಮ  
 b) ಅಧರ್ಮ  
 c) ಧರ್ಮ  
 d) ಮನುಷ್ಯ ಧರ್ಮ

28. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಅವರ ತವರೂರು ಯಾವುದು?  
 a) ರಾಣಿಬೆನ್ನೂರು      b) ಮಂಡ್ಯ      c) ಮೈಸೂರು      d) ಮುದ್ದೇನಹಳ್ಳಿ
29. ಗ್ರಂಥಕರ್ತರ ಸಮ್ಮೇಳನವು \_\_\_\_ ರಲ್ಲಿ ನಡೆಯಿತು.  
 a) 1977      b) 1907      c) 1970      d) 1974.
30. ಭಾರತ ಸರ್ಕಾರವು ಕನ್ನಡ ಭಾಷೆಯನ್ನು \_\_\_\_\_ ಎಂದು ಘೋಷಿಸಿದೆ.  
 a) ಶಾಸ್ತ್ರೀಯ ಭಾಷೆ  
 b) ಕನ್ನಡಭಾಷೆ  
 c) ತ್ರಿಭಾಷೆ  
 d) ಲಿಪಿ.
31. ವಿಫಲವಾದ ಪದದ ಅರ್ಥ.  
 a) ಕ್ರಾಂತಿ      b) ಸ್ವರ್ಗ      c) ಕವಿತೆ      d) ಕಾರ್ಯ
32. ಶಿಶುನಾಳ ಷರೀಫರ ಪ್ರಕಾರ 'ಆಚಾರ' ಎಂದರೆ  
 a) ಆವಿಗೆ ಅಥವಾ ಮುಚ್ಚಳ      b) ಮಣ್ಣು  
 c) ನೀರು      d) ಮನ.
33. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಕಬ್ಬಿಣ ಮತ್ತು ಉಕ್ಕಿನ ಕಾರ್ಖಾನೆ ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿದೆ?  
 a) ಮಂಡ್ಯ      b) ಮಂಗಳೂರು  
 c) ಮೈಸೂರು      d) ಶಿವಮೊಗ್ಗ
34. ಗಾಂಧೀಜಿಯವರು ಯಾರನ್ನು "ಅನ್ವಬ್ರಹ್ಮ" ಎಂದು ಕರೆದಿದ್ದಾರೆ?  
 a) ಕುವೆಂಪು  
 b) ಸರ್. ಎಂ. ವಿಶ್ವೇಶ್ವರಯ್ಯ  
 c) ಡಿ.ವಿ.ಜಿ  
 d) ಅಕ್ಕಿಹೆಬ್ಬಾಳು ನರಸಿಂಹಮೂರ್ತಿ
35. ಯುಗಾದಿ ಕಥೆಯ ಲೇಖಕರು ಯಾರು?  
 a) ಡಿ.ವಿ.ಜಿ      b) ವಸುಧೇಂದ್ರ      c) ಅ.ನ.ಕೃ      d) ವಿ.ಕೃ.ಗೋಕಾಕ್
36. ಕಾಸಿಂಸಾಬರ ಮಗಳ ಹೆಸರೇನು?  
 a) ಚಾಂದಿನಿ      b) ಹಂಸ      c) ರೇಖಾ      d) ರೂಪ.

37. ಹಸಿವಾದರೆ ಉರೋಳಿಗೆ ಭಿಕ್ಷಾನ್ನಗಳುಂಟು, ತೃಷೆಯಾದರೆ ಕೆರೆ ಬಾವಿ ಹಳ್ಳಗಳುಂಟು, ಶಯನಕ್ಕೆ ಹಾಳುದೇಗುಲಗಳುಂಟು, ಈ ವಚನವನ್ನು ರಚಿಸಿದವರು.  
 a) ಅಕ್ಕಮಹಾದೇವಿ  
 b) ಬಸವಣ್ಣ  
 c) ರಾಮನಾಥ  
 d) ಅಲ್ಲಮ ಪ್ರಭು
38. ವಿದ್ಯಾವರ್ಧಕ ಸಂಘವನ್ನು ಯಾವ ಕಾರಣಕ್ಕಾಗಿ ಸ್ಥಾಪಿಸಲಾಯಿತು.  
 a) ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿಗಾಗಿ  
 b) ದೇಶಕ್ಕಾಗಿ  
 c) ಭಾಷೆಗಾಗಿ  
 d) ಕರ್ನಾಟಕ ಏಕೀಕರಣಕ್ಕಾಗಿ
39. ತಲ್ಲಣಿಸದಿರು ಕಂಡ್ಯ ತಾಳು ಮನವೇ ಕೀರ್ತನೆಯ ಕೀರ್ತನಕಾರರು ಯಾರು?  
 a) ಪುರಂದರದಾಸರು  
 b) ಶ್ರೀರಂಗರು  
 c) ಕನಕದಾಸರು  
 d) ವೆಂಕಟಸುಬ್ಬಯ್ಯ
40. ವೀರರ ಜೀವನ ಸ್ಮಾರಕಗಳನ್ನು ಏನೆಂದು ಕರೆಯುವರು?  
 a) ಸಿಡಿತಲೆ  
 b) ವೀರಗಲ್ಲು  
 c) ಮಾಸ್ತಿಗಲ್ಲು  
 d) ಬರಹದಕಲ್ಲು
41. ಜೇಡರ ದಾಸಿಮಯ್ಯನವರ ಅಂಕಿತನಾಮ  
 a) ಚನ್ನ  
 b) ಶಿವಪ್ಪ  
 c) ಗುಹೇಶ್ವರ  
 d) ರಾಮನಾಥ.
42. ಆಲಿಸುವ ಅಥವಾ ಗ್ರಹಿಸುವ ಕೌಶಲ ಈ ವಾಕ್ಯದಲ್ಲಿರುವ ಷಷ್ಠಿ ವಿಭಕ್ತಿ ಯಾವುದು?  
 a) ಆ  
 b) ಎಲ್ಲಿ  
 c) ಗೆ  
 d) ದೆಸೆಯಿಂದ
43. ವಿನೋಬಾ ಭಾವೆಯವರು ಕನ್ನಡ ಲಿಪಿಯನ್ನು ಏನೆಂದು ಕರೆದಿದ್ದಾರೆ?  
 a) ರಾಜರಾಣಿ  
 b) ಲಿಪಿಗಳ ರಾಣಿ  
 c) ಕನ್ನಡಭಾಷೆ  
 d) ಕುಸುಮರಾಣಿ

44. ಥಾಮಸ್ ಮನ್ರೋವರ ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿ ಕಲೆಕ್ಟರ್ ಆಗಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಿದ್ದರು?  
a) ಬಾಗಲಕೋಟೆ b) ಬೆಳಗಾವಿ c) ಬೀದರ್ d) ಬಳ್ಳಾರಿ.
45. ಕಳೆದ ಪದದ ಸಮನಾರ್ಥಕ ಪದ  
a) ರಾಗಿ b) ಜೋಳ c) ಭತ್ತ d) ಗೋಧಿ
46. ಹಂಪ ನಾಗರಾಜಯ್ಯನವರ ಹುಟ್ಟಿದ ಸ್ಥಳ  
a) ಹಂಪೆ ಸಂದ್ರ b) ಮಂಡ್ಯ c) ಬಳ್ಳಾರಿ d) ಮೈಸೂರು.
47. ಕಬ್ಬಿಗರ ಕಾವ್ಯ ಕೃತಿಯನ್ನು ರಚಿಸಿದ ಕವಿ ಯಾರು?  
a) ಪಂಪ b) ರನ್ನ c) ಜನ್ನ d) ಅಂಡಯ್ಯ
48. ತಂತ್ರಜ್ಞಾನದ ಬೆಳವಣಿಗೆಯ ಫಲವಾಗಿ ಕನ್ನಡ ಭಾಷೆಗೆ ಸಾಕಷ್ಟು \_\_\_\_\_ ಪದಗಳು ಸೇರಿಕೊಂಡಿವೆ.  
a) ತೆಲಗು b) ತಮಿಳು c) ಇಂಗ್ಲೀಷ್ d) ಮಲಯಾಳಿ
49. ಶರಣರ ಚಳುವಳಿಗೆ ಪ್ರೇರಕ ಶಕ್ತಿಯಾಗಿ ನಿಂತ ಮಹಾ ಮಾನವತಾವಾದಿ.  
a) ಅಕ್ಕಮಹಾದೇವಿ b) ಆಯ್ದಕ್ಕಿಮಾರಯ್ಯ  
c) ಬಸವಣ್ಣ d) ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮ
50. ಭಕ್ತಿ ಪದದ ತದ್ಭವ ರೂಪ \_\_\_\_\_  
a) ಪ್ರಕೃತಿ b) ವಿಕೃತಿ c) ಸಂಸ್ಕೃತಿ d) ಭಕುತಿ

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**First/Second Semester B.E/B.Tech. Degree Examination, Dec.2024/Jan.2025**

## ಸಂಸ್ಕೃತಿಕ ಕನ್ನಡ

(COMMON TO ALL BRANCHES)

Time: 1 hrs.]

[Max. Marks: 50

### ಸೂಚನೆಗಳು

1. ಎಲ್ಲಾ ಜಿಂ ಪ್ರಶ್ನೆಗಳಿಗೂ ಉತ್ತರಿಸಿರಿ. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ಅಂಕ.
2. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಯು.ಎಸ್.ಎನ್ ಸಂಖ್ಯೆ ಹಾಗೂ ಪಶ್ಚಿಮ ಪತ್ರಿಕೆಯ ಶ್ರೇಣಿಯನ್ನು ಅಂದರೆ A, B, C ಅಥವಾ D ಯನ್ನು ತಪ್ಪಿಲ್ಲದಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಗುರುತಿಸುವುದು ಅಭ್ಯರ್ಥಿಯ ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ.
3. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ನಿಗದಿಪಡಿಸಿರುವ ಸ್ಥಳದಲ್ಲಿ ಭರ್ತಿಮಾಡದೆ ಹಾಗೆಯೇ ಬಿಟ್ಟಲ್ಲಿ ಅಥವಾ ಭರ್ತಿಮಾಡಿದ ಮಾಹಿತಿಯಲ್ಲಿ ಯಾವುದೇ ವ್ಯತ್ಯಾಸವಿದ್ದಲ್ಲಿ ಅಂತಹ ಉತ್ತರ ಪತ್ರಿಕೆಗಳನ್ನು ರದ್ದು ಪಡಿಸಲಾಗುವುದು.
4. ಕೇವಲ ಒಂದು ಉತ್ತರವನ್ನು ಮಾತ್ರ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಗುರುತಿಸತಕ್ಕದ್ದು. ಒಂದೆ ಪ್ರಶ್ನೆಗೆ ಎರಡು ಉತ್ತರವನ್ನು ಗುರುತಿಸುವುದು ಅಮಾನ್ಯ.
5. ಎಲ್ಲಾ ಉತ್ತರಗಳನ್ನು ನಿಮಗೆ ಒದಗಿಸಲಾದ ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯ ಹಾಳೆಯ ಮೇಲೆ ಕಪ್ಪು ಅಥವಾ ನೀಲಿ ಶಾಹಿಯ ಬಾಲ್‌ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಗುರುತು ಮಾಡಬೇಕು.

1. ಕಳ್ಳಗಂಜಿ \_\_\_\_\_ ಹೊಕ್ಕಡೆ ಹುಲಿ ತಿಂಬುದ ಮಾಬುದೇ?  
a) ಮನೆ                      b) ಕಾಡು                      c) ಸ್ಮಶಾನ                      d) ಹುತ್ತ.
2. ಕರಿ ಘನ \_\_\_\_\_ ಕಿರಿದೆನ್ನಬಹುದೆ ಬಾರದಯ್ಯ.  
a) ಜ್ಯೋತಿ                      b) ನೆನಪು                      c) ಮರೆವು                      d) ಅಂಕುಶ.
3. ತೊರೆಯೊಳು \_\_\_\_\_ ದುರಿತ ಪೋಗುವುದೆ?  
a) ಮಿಂದರೆ                      b) ಹಾಡಿದರೆ                      c) ಕುಣಿದರೆ                      d) ಮರೆತರೆ.
4. ಪವಳದ ಲತೆಗೆ \_\_\_\_\_ ಇಟ್ಟವರು ಯಾರು ?  
a) ಕಪ್ಪು                      b) ಹಸಿರು                      c) ಚಿತ್ರ                      d) ಕೆಂಪು.
5. ಬ್ರಹ್ಮಾಡವನ್ನೆಲ್ಲ ಯಾರು ತುಂಬಿಕೊಂಡಿದ್ದಾರೆಂದು ಶರೀಫರು ಹೇಳಿದ್ದಾರೆ?  
a) ಕುಂಬಾರ                      b) ಬಡಗ                      c) ಕುಂಬಾರಕಿ                      d) ಗಾಣತಿ

6. ಎಷ್ಟು ಕಾಸಿಗೆ ಕುಂಬಾರಕಿ ಒಂದು ಕುಡಕಿಯನ್ನು ಮಾರುವಳು?  
a) 3                                      b) 6                                      c) 9                                      d) 10
7. ನಗುವು ಸಹಜದ ಧರ್ಮ ನಗಿಸುವುದು \_\_\_\_  
a) ಪರಧರ್ಮ                              b) ಅಧರ್ಮ                              c) ಧರ್ಮ                              d) ಮನುಷ್ಯ ಧರ್ಮ
8. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಅವರ ತವರೂರು ಯಾವುದು?  
a) ರಾಣಿಬೆನ್ನೂರು                              b) ಮಂಡ್ಯ                              c) ಮೈಸೂರು                              d) ಮುದ್ದೇನಹಳ್ಳಿ
9. ಗ್ರಂಥಕರ್ತರ ಸಮ್ಮೇಳನವು \_\_\_\_ ರಲ್ಲಿ ನಡೆಯಿತು.  
a) 1977                                      b) 1907                                      c) 1970                                      d) 1974.
10. ಭಾರತ ಸರ್ಕಾರವು ಕನ್ನಡ ಭಾಷೆಯನ್ನು \_\_\_\_ ಎಂದು ಘೋಷಿಸಿದೆ.  
a) ಶಾಸ್ತ್ರೀಯ ಭಾಷೆ  
b) ಕನ್ನಡಭಾಷೆ  
c) ತ್ರಿಭಾಷೆ  
d) ಲಿಪಿ.
11. ಜೇಡರ ದಾಸಿಮಯ್ಯನವರ ಅಂಕಿತನಾಮ  
a) ಚನ್ನ                                      b) ಶಿವಪ್ಪ                                      c) ಗುಹೇಶ್ವರ                                      d) ರಾಮನಾಥ.
12. ಆಲಿಸುವ ಅಥವಾ ಗ್ರಹಿಸುವ ಕೌಶಲ ಈ ವಾಕ್ಯದಲ್ಲಿರುವ ಷಷ್ಠಿ ವಿಭಕ್ತಿ ಯಾವುದು?  
a) ಆ                                      b) ಎಲ್ಲಿ                                      c) ಗೆ                                      d) ದೆಸೆಯಿಂದ
13. ವಿನೋಬಾ ಭಾವೆಯವರು ಕನ್ನಡ ಲಿಪಿಯನ್ನು ಏನೆಂದು ಕರೆದಿದ್ದಾರೆ?  
a) ರಾಜರಾಣಿ                                      b) ಲಿಪಿಗಳ ರಾಣಿ  
c) ಕನ್ನಡಭಾಷೆ                                      d) ಕುಸುಮರಾಣಿ
14. ಥಾಮಸ್ ಮನ್ರೋವರ ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿ ಕಲೆಕ್ಟರ್ ಆಗಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಿದ್ದರು?  
a) ಬಾಗಲಕೋಟೆ                                      b) ಬೆಳಗಾವಿ                                      c) ಬೀದರ್                                      d) ಬಳ್ಳಾರಿ.
15. ಕಳೆದ ಪದದ ಸಮನಾರ್ಥಕ ಪದ  
a) ರಾಗಿ                                      b) ಜೋಳ                                      c) ಭತ್ತ                                      d) ಗೋಧಿ
16. ಹಂಪ ನಾಗರಾಜಯ್ಯನವರ ಹುಟ್ಟಿದ ಸ್ಥಳ  
a) ಹಂಪ ಸಂದ್ರ                                      b) ಮಂಡ್ಯ                                      c) ಬಳ್ಳಾರಿ                                      d) ಮೈಸೂರು.

17. ಕಬ್ಬಿಗರ ಕಾವ್ಯ ಕೃತಿಯನ್ನು ರಚಿಸಿದ ಕವಿ ಯಾರು?  
a) ಪಂಪ b) ರನ್ನ c) ಜನ್ನ d) ಆಂಡಯ್ಯ
18. ತಂತ್ರಜ್ಞಾನದ ಬೆಳವಣಿಗೆಯ ಫಲವಾಗಿ ಕನ್ನಡ ಭಾಷೆಗೆ ಸಾಕಷ್ಟು \_\_\_\_\_ ಪದಗಳು ಸೇರಿಕೊಂಡಿವೆ.  
a) ತೆಲಗು b) ತಮಿಳು c) ಇಂಗ್ಲೀಷ್ d) ಮಲಯಾಳಿ
19. ಶರಣರ ಚಳುವಳಿಗೆ ಪ್ರೇರಕ ಶಕ್ತಿಯಾಗಿ ನಿಂತ ಮಹಾ ಮಾನವತಾವಾದಿ.  
a) ಅಕ್ಕಮಹಾದೇವಿ b) ಆಯ್ದಕ್ಕಿಮಾರಯ್ಯ  
c) ಬಸವಣ್ಣ d) ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮ
20. ಭಕ್ತಿ ಪದದ ತದ್ಭವ ರೂಪ \_\_\_\_\_  
a) ಪ್ರಕೃತಿ b) ವಿಕೃತಿ c) ಸಂಸ್ಕೃತಿ d) ಭಕುತಿ
21. ವಸುಧೇಂದ್ರರವರು ಬರೆದ ಕಾದಂಬರಿ ಇದಾಗಿದೆ.  
a) ಮನೀಷೆ b) ಕೃತಿ c) ಕರ್ತೃ d) ಸಂಕಲನ
22. ಪ್ರಹ್ಲಾದ \_\_\_\_\_ ಇಂಜಿನಿಯರ್.  
a) ಸಾಫ್ಟ್‌ವೇರ್ b) ಇಂಜಿನಿಯರ್ c) ಸಿವಿಲ್ ಇಂಜಿನಿಯರ್ d) ಮೆಕಾನಿಕ್
23. ವಿಜಯನಗರ ಸಾಮ್ರಾಜ್ಯದ ರಾಜಧಾನಿ  
a) ಹಂಪೆ b) ಬೇಲೂರು c) ಹಳೇಬೀಡು d) ಕೋಲಾರ
24. ನಮ್ಮ ರಾಜ್ಯದಲ್ಲಿ \_\_\_\_\_ ಸೂತ್ರ ಬಳಕೆಯಲ್ಲಿದೆ.  
a) ಏಕಭಾಷಾ b) ದ್ವಿಭಾಷಾ c) ತ್ರಿಭಾಷಾ d) ಭಾಷಾ
25. ಧರ್ಮಸಹಿಷ್ಣುತೆ ಬಗ್ಗೆ ಹೇಳುವ ಶಾಸನ \_\_\_\_\_  
a) ಹಳೇಬೀಡು b) ಬೇಲೂರು c) ಹಂಪಿ d) ಹಾಸನ
26. ಬುಕ್ಕರಾಯನ ಕಾಲ ಸರಿಸುಮಾರು \_\_\_\_\_ ವರ್ಷ.  
a) 1368 b) 1468 c) 1568 d) 1668.
27. ಕುರುಡು ಕಾಂಚಾಣ ಪದ್ಯದ ಕವಿ.  
a) ಕುವೆಂಪು b) ದ.ರಾ.ಬೇಂದ್ರೆ  
c) ಡಿ.ವಿ.ಜಿ d) ಗೋಕಾಕ್

28. ಯುಗಾದಿ ಕಥೆಯಲ್ಲಿ ಯಾರನ್ನು 'ಖಡಕ್' ಮಾಸ್ತರ ಎಂದು ಕರೆಯಲಾಗಿದೆ.  
 a) ಗೋಪಣ್ಣ b) ಪ್ರಹ್ಲಾದ  
 c) ಇಸ್ಮಾಯಿಲ್ d) ಕಾಸಿಂಸಾಬ್
29. ಯದ್ಧದಲ್ಲಿ ಗೆದ್ದು ಬಂದರೆ ಕೀರ್ತಿ, ಸತ್ತರೆ \_\_\_\_  
 a) ನರಕ b) ಹಣ c) ಪ್ರಶಸ್ತಿ d) ಸ್ವರ್ಗ
30. ಹಲವು ಕಾಲ ಕಲ್ಲು ನೀರೊಳಗಿದ್ದರೇನು? ಬಲುನೆನೆದು \_\_\_\_ ಆಗುವುದೆ.  
 a) ಅಮೃತಶಿಲೆ b) ಹವಳ c) ಕಪ್ಪೆ d) ನಿಧಿ.
31. ಹಂಪನಾಗರಾಜಯ್ಯನವರು ಹುಟ್ಟಿದ ವರ್ಷ.  
 a) 1936 b) 1946 c) 1947 d) 1935
32. ಕನ್ನಡ ಬರಹಗಳಿಗೆ \_\_\_\_ ವರ್ಷಗಳ ಇತಿಹಾಸವಿದೆ.  
 a) 1956 b) 1884 c) 1956 d) 1500
33. ಹುಲ್ಲಾಗು ಬೆಟ್ಟದಡಿ ಮನೆಗೆ \_\_\_\_ ಆಗು.  
 a) ಸಂಪಿಗೆ b) ಮಲ್ಲಿಗೆ c) ಇಂಪಿಗೆ d) ತಂಪಿಗೆ
34. ಶಿಶುನಾಳ ಷರೀಫರ ಪ್ರಕಾರ ಕುಂಬಾರನಿಗೆ ಚಿನ್ನ ಎಂದರೆ.  
 a) ಬಂಗಾರ b) ಮಣ್ಣು c) ತೋಟ d) ಕಾರ್ಯ
35. ಪಥ ಪದದ ಅರ್ಥ.  
 a) ರಕ್ತ b) ಸ್ವರ್ಗ ಜೀವನ c) ದಾರಿ d) ಜ್ಞಾನಿ
36. ಜನಪದ ಅಕಾಡೆಮಿಯ ಅಧ್ಯಕ್ಷರು \_\_\_\_  
 a) ಹುಚ್ಚಪ್ಪ ಮಾಸ್ತರ  
 b) ಶ್ರೀ,ಎಸ್,ಕೆ.ಕರೀಂಖಾನ್  
 c) ಹಿ.ಚಿ.ಬೋರಲಿಂಗಯ್ಯ  
 d) ಶ್ರೀನಿವಾಸಮೂರ್ತಿ
37. ಕವಿರಾಜಮಾರ್ಗದಲ್ಲಿ \_\_\_\_ ಅವರನ್ನು ಕುರಿತು ವರ್ಣಿಸಲಾಗಿದೆ?  
 a) ತಮಿಳರು b) ಕೇರಳಿಗರು c) ಕನ್ನಡಿಗರು d) ಮರಾಠಿಗರು
38. ಕನ್ನಡ ಭಾಷೆಗೆ ಎಷ್ಟು ಪ್ರಮುಖ ಕೌಶಲ್ಯಗಳಿವೆ?  
 a) 10 b) 20 c) 4 d) 8.



39. ವಚನ ಎಂದರೆ \_\_\_\_.
- a) ಮಾತು                      b) ಸಮಾಜ                      c) ಭಾಷೆ                      d) ದೇಶ
40. ಸುಂಕ ಪದದ ಅರ್ಥ.
- a) ಕಾಸು                      b) ಆಣೆ                      c) ತೆರಿಗೆ                      d) ನೋವು.
41. ವಿಪ್ಲವ ಪದದ ಅರ್ಥ.
- a) ಕ್ರಾಂತಿ                      b) ಸ್ವರ್ಗ                      c) ಕವಿತೆ                      d) ಕಾರ್ಯ
42. ಶಿಶುನಾಳ ಷರೀಫರ ಪ್ರಕಾರ 'ಆಚಾರ' ಎಂದರೆ
- a) ಆವಿಗೆ ಅಥವಾ ಮುಚ್ಚಳ                      b) ಮಣ್ಣು  
c) ನೀರು                      d) ಮನ.
43. ವಿಶ್ವೇಶ್ವರಯ್ಯ ಕಬ್ಬಿಣ ಮತ್ತು ಉಕ್ಕಿನ ಕಾರ್ಖಾನೆ ಯಾವ ಜಿಲ್ಲೆಯಲ್ಲಿದೆ?
- a) ಮಂಡ್ಯ                      b) ಮಂಗಳೂರು  
c) ಮೈಸೂರು                      d) ಶಿವಮೊಗ್ಗ
44. ಗಾಂಧೀಜಿಯವರು ಯಾರನ್ನು "ಅನ್ನಬ್ರಹ್ಮ" ಎಂದು ಕರೆದಿದ್ದಾರೆ?
- a) ಕುವೆಂಪು  
b) ಸರ್. ಎಂ. ವಿಶ್ವೇಶ್ವರಯ್ಯ  
c) ಡಿ.ವಿ.ಜಿ  
d) ಅಕ್ಕಿಹೆಬ್ಬಾಳು ನರಸಿಂಹಮೂರ್ತಿ
45. ಯುಗಾದಿ ಕಥೆಯ ಲೇಖಕರು ಯಾರು?
- a) ಡಿ.ವಿ.ಜಿ                      b) ವಸುಧೇಂದ್ರ                      c) ಅ.ನ.ಕೃ                      d) ವಿ.ಕೃ.ಗೋಕಾಕ್
46. ಕಾಸಿಂಸಾಬರ ಮಗಳ ಹೆಸರೇನು?
- a) ಚಾಂದಿನಿ                      b) ಹಂಸ                      c) ರೇಖಾ                      d) ರೂಪ.
47. ಹಸಿವಾದರೆ ಉರೂಳಿಗೆ ಭಿಕ್ಷಾನ್ನಗಳುಂಟು, ತೃಷೆಯಾದರೆ ಕೆರೆ ಬಾವಿ ಹಳ್ಳಗಳುಂಟು, ಶಯನಕ್ಕೆ ಹಾಳುದೇಗುಲಗಳುಂಟು, ಈ ವಚನವನ್ನು ರಚಿಸಿದವರು.
- a) ಅಕ್ಕಮಹಾದೇವಿ  
b) ಬಸವಣ್ಣ  
c) ರಾಮನಾಥ  
d) ಅಲ್ಲಮ ಪ್ರಭು

48. ವಿದ್ಯಾವರ್ಧಕ ಸಂಘವನ್ನು ಯಾವ ಕಾರಣಕ್ಕಾಗಿ ಸ್ಥಾಪಿಸಲಾಯಿತು.

- a) ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿಗಾಗಿ
- b) ದೇಶಕ್ಕಾಗಿ
- c) ಭಾಷೆಗಾಗಿ
- d) ಕರ್ನಾಟಕ ಏಕೀಕರಣಕ್ಕಾಗಿ

49. ತಲ್ಲಣಿಸದಿರು ಕಂಡ್ಯ ತಾಳು ಮನವೇ ಕೀರ್ತನೆಯ ಕೀರ್ತನಕಾರರು ಯಾರು?

- a) ಪುರಂದರದಾಸರು
- b) ಶ್ರೀರಂಗರು
- c) ಕನಕದಾಸರು
- d) ವೆಂಕಟಸುಬ್ಬಯ್ಯ

50. ವೀರರ ಜೀವನ ಸ್ಮಾರಕಗಳನ್ನು ಏನೆಂದು ಕರೆಯುವರು?

- a) ಸಿಡಿತಲೆ
- b) ವೀರಗಲ್ಲು
- c) ಮಾಸ್ತಿಗಲ್ಲು
- d) ಬರಹದಕಲ್ಲು

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## First/Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025

### Applied Physics for Civil Engg Stream

Time: 3 hrs.

Max. Marks: 100

- Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. VTU Formula Hand Book is permitted.  
3. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	Define Stiffness factor of a spring and hence derive expressions for the effective spring constant of springs in series and parallel combinations.	07	L2	CO1
	b.	Explain various forces acting on a system under damped oscillations, setup differential equation and assuming the solution mention the variation of amplitude with respect to time.	08	L2	CO1
	c.	Calculate the mach angle if the object is travelling with a speed of 660 m/s given the speed of sound in the medium is 330 m/s.	05	L3	CO1
OR					
Q.2	a.	Mention four mach regimes and explain the construction and working of Reddy shock tube with the help of neat sketch.	09	L3	CO1
	b.	Explain the types of springs and their applications.	06	L2	CO1
	c.	Evaluate the resonance frequency of a spring of force constant 2467 Nm carrying a mass of 100 gm.	05	L3	CO5
Module – 2					
Q.3	a.	Mention the types of engineering materials and with figure explain brittle and ductile fractures in engineering materials.	09	L2	CO1
	b.	Define a beam and explain the types of beams.	06	L2	CO1
	c.	A metal cube of side 0.20 m is subjected to a shearing force of 4000 N. The top surface is displaced through 0.50 cm with respect to the bottom. Calculate the shear modulus of elasticity of the metal.	05	L3	CO5
OR					
Q.4	a.	Describe stress hardening and stress softening.	06	L2	CO1
	b.	Define Poisson's ratio, Young's modulus and rigidity modulus and derive the relation between them.	09	L2	CO1
	c.	Calculate the force required to produce an extension of 1mm in wire made of material with Young's modulus 100 GPa and of length 1 m and diameter 1 mm.	05	L3	CO5

Module – 3					
Q.5	a.	Give the qualitative explanation of radiometric quantities such as radiant energy, radiant power, radiant intensity, radiance, radiant existence etc along with respective equations.	10	L2	CO2
	b.	Describe reflectance and transmittance.	05	L2	CO2
	c.	Explain the impact of noise in multi-storied buildings.	05	L2	CO2
OR					
Q.6	a.	Define reverberation and reverberation time and hence derive Sabine's formula.	09	L2	CO2
	b.	Explain Cosine law and Inverse square law.	06	L2	CO2
	c.	The reverberation time is found to be 1.5 sec for an empty hall and it is found to be 1 sec when a curtain cloth of $20 \text{ m}^2$ is suspended at the center of the hall. If the dimensions of the hall are $10 \times 8 \times 6 \text{ m}^3$ , calculate the coefficient of absorption of the curtain cloth.	05	L3	CO2
Module – 4					
Q.7	a.	Enumerate the requisites of a laser system and describe the construction and working of semiconductor laser with a neat sketch and energy level diagram.	09	L2	CO3
	b.	Derive an expression for numerical aperture in terms of refractive indices of core, cladding and the surrounding.	06	L2	CO3
	c.	Calculate the number of photons emitted per second for a LASER with power output 10 MW given the wavelength of fiber 690 nm.	05	L3	CO5
OR					
Q.8	a.	Define attenuation in fiber with the expression for attenuation coefficient and describe the various fiber losses.	10	L2	CO3
	b.	Explain the construction and working of fiber optic temperature sensor.	05	L2	CO3
	c.	Calculate the numerical aperture and acceptance angle for an optical fiber of RI of core 1.5 and RI of cladding 1.45 placed in water of RI 1.33.	05	L3	CO5
Module – 5					
Q.9	a.	Discuss the classification of earthquakes.	09	L2	CO4
	b.	Enumerate the causes and adverse effects of tsunami waves.	06	L2	CO4
	c.	Calculate the intensity of earthquakes of magnitude 6.5 assuming the base intensity as $I_0$ .	05	L3	CO4
OR					
Q.10	a.	Define landslide and describe the causes for landslides.	08	L2	CO4
	b.	Discuss the engineering structures to withstand earthquakes and Tsunami waves.	07	L2	CO4
	c.	The intensity of one earthquake is 100 times the intensity of the other. If the magnitude of the first earthquake is 8.9 estimate the magnitude of the other.	05	L3	CO4

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BPHYE102/202

**First/Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025**

## Applied Physics for EEE Stream

Time: 3 hrs.

Max. Marks: 100

*Note:1. Answer any FIVE full questions, choosing ONE full question from each module.*

*2. VTU Formula Hand Book is permitted.*

*3. M : Marks, L: Bloom's level, C: Course outcomes.*

*4. Constants: Planck's constant ' $h$ ' =  $6.63 \times 10^{-34}$  Js, Boltzman constant ' $k$ ' =  $1.38 \times 10^{-23}$  JK<sup>-1</sup>*

*Mass of electron ' $m$ ' =  $9.11 \times 10^{-31}$  kg. Charge of electron ' $e$ ' =  $1.603 \times 10^{-19}$  C*

*Velocity of light in free space ' $C$ ' =  $3 \times 10^8$  m/s, Permittivity (free space) ' $\epsilon_0$ ' =  $8.854 \times 10^{-12}$  Fm<sup>-1</sup>*

Module – 1			M	L	C
Q.1	a.	Using de-Broglie's hypothesis setup time independent Schrodinger wave equation for a particle in one-dimension.	07	L2	CO1
	b.	State and explain Heisenberg's uncertainty principle. Using uncertainty principle, prove that electron does not exist inside the nucleus.	09	L2	CO1
	c.	Find the de-Broglie wavelength of the electron in its ground state, if it is confined in an infinite potential well of width 10 nm.	04	L3	CO1
OR					
Q.2	a.	Explain briefly (i) Matter waves (ii) Group velocity (iii) Wave function	06	L2	CO1
	b.	Find the eigen function and energy eigen values for particle in a one dimensional potential well of infinite height.	10	L2	CO1
	c.	A particle of mass $9.1 \times 10^{-31}$ kg is confined in a region of width $8 \times 10^{-9}$ m. Calculate the minimum uncertainty in the measurement of its velocity.	04	L3	CO1
Module – 2					
Q.3	a.	What is Meissner effect? Discuss types of superconductors with examples based in critical field.	08	L2	CO2
	b.	What are polar dielectrics? Describe the different polarization mechanisms.	08	L2	CO2
	c.	Calculate the probability of an electron occupying an energy level 0.02 eV below the Fermi level in a metal at thermal equilibrium (300 K).	04	L3	CO2
OR					
Q.4	a.	What is Fermi factor? Discuss the dependence of Fermi factor on temperature and energy.	07	L2	CO2
	b.	What is internal field in dielectrics? Derive Clausius – Mossotti equation for an isotropic solid dielectric material with cubic symmetry.	08	L2	CO2
	c.	Explain construction and working of a DC-SQUID.	05	L2	CO2
Module – 3					
Q.5	a.	Explain the various phenomena when radiation interacts with matter and derive an expression for energy density of radiation under thermal equilibrium condition, in terms of Einstein's coefficients.	10	L2	CO1
	b.	Discuss the different types of optical fibers with suitable diagrams.	06	L2	CO1
	c.	The ratio of population of two energy levels in a laser material at 57°C is $0.944 \times 10^{30}$ . Find the wavelength of the light emitted by spontaneous emissions.	04	L3	CO1

OR					
Q.6	a.	Describe the construction and working of CO <sub>2</sub> laser with the help of necessary diagrams.	10	L2	CO1
	b.	Derive an expression for numerical aperture in an optical fiber with a neat diagram.	06	L2	CO1
	c.	The attenuation in an optical fiber is 2.2 dB/km. What fraction of its initial light intensity remains after 2 km length?	04	L3	CO1
Module – 4					
Q.7	a.	State and derive Gauss's divergence theorem.	08	L2	CO3
	b.	Derive the electromagnetic wave equation using Maxwell's equations.	08	L2	CO3
	c.	A vector field is given $\vec{F} = 2x^3\vec{i} + 5y^2\vec{j} + 9z\vec{k}$ . Find the divergence of $\vec{F}$ at (1, 2, 3).	04	L3	CO3
OR					
Q.8	a.	Write the four Maxwell's equations for time-varying conditions in vacuum and explain each notations used in it.	08	L2	CO3
	b.	What is displacement current density? Derive an expression for displacement current.	08	L2	CO3
	c.	Show that given vector field $\vec{A}$ is irrotational. Given $\vec{A} = (3x^2 + y + 2z)\vec{i} + (x - 5y^3 - 2z)\vec{j} + (2x - 2y + 3z^2)\vec{k}$	04	L3	CO3
Module – 5					
Q.9	a.	State law of mass action in semiconductors. Derive an expression for electrical conductivity of an intrinsic semiconductor.	08	L2	CO4
	b.	Describe four Probe method to determine the resistivity of a thin semiconductor sample.	08	L2	CO4
	c.	In the experiment of dielectric constant of the material of capacitor, the intersecting time interval for charging and discharging ( $T_p$ ) is found to be 7 sec with a resistor of 110 k $\Omega$ . Find the area of the capacitor plate "A". Given that thickness of dielectric material and dielectric constant are 1.02mm and 4.2 respectively.	04	L3	CO5
OR					
Q.10	a.	What is hall effect? Derive an expression for Hall-coefficient with necessary diagrams.	08	L2	CO4
	b.	What is direct band gap semiconductor? Explain the construction and working of a GaAs laser.	08	L2	CO4
	c.	The electrical conductivity of a intrinsic semiconductor with carrier density $2.37 \times 10^{19}/\text{m}^3$ at 300 K is $2.12 \Omega^{-1}\text{m}^{-1}$ . Assuming electron mobility as $0.38 \text{ m}^2\text{V}^{-1}\text{s}^{-1}$ , calculate mobility of holes.	04	L3	CO4

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# CBCS SCHEME

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BPHYM102/202

## First/Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Physics for ME Stream

Time: 3 hrs.

Max. Marks:100

**Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.  
3. VTU formula Handbook is permuted.

Module – 1			M	L	C
1	a.	Obtain a differential equation for a body undergoing forced oscillation and mention expression for amplitude and phase of oscillation. Discuss the three cases for variation of amplitude with frequency in forced oscillation.	10	L2	CO1
	b.	Define Mach number and Mach angle. Discuss the various types waves based as Mach number.	5	L2	CO1
	c.	A spring undergoes an extension of 5 cm for a load of 50 gm. Find its frequency of oscillations if it is set for vertical oscillations with a load of 200 gm, attached to its bottom, Ignore the mass of the spring.	5	L3	CO5
<b>OR</b>					
2	a.	Describe the construction and working of hand operated Reddy shock tube. Mention any three applications of shock waves.	10	L2	CO1
	b.	Derive the expression for equivalent force constant for two springs connected in series combinations and mention the expression for period of oscillation.	6	L2	CO1
	c.	The distance between the two pressure sensors in shock tube is 100 mm. The time taken by a shock wave to travel this distance is 100 microsecond. If the velocity of sound under the same conditions is 340 m/s. Find the match number of the shock wave.	4	L3	CO1
<b>Module – 2</b>					
3	a.	Derive the expression for bending moment in terms of moment of inertia and hence arrive at the expression for bending moment for a beam for circular and rectangular cross section.	10	L2	CO1
	b.	With neat diagram explain the stress-strain curve for elastic materials.	6	L2	CO1
	c.	Calculate the extension produced in a wire of length 2 m and radius 0.013 cm due to force of 15 N applied along its length. (Given Yong's modulus of wire $Y = 2.1 \times 10^{11} \text{ N/m}^2$ ).	4	L3	CO1
<b>OR</b>					
4	a.	Define Young's modulus, bulk modulus and rigidity modulus. Derive relation between Y, n and $\sigma$ .	10	L2	CO2
	b.	Discuss any three types of beams.	6	L2	CO2
	c.	Calculate the Poisson's ratio for the material given that $Y = 12.25 \times 10^{10} \text{ N/mm}^2$ and $\eta = 4.55 \times 10^{10} \text{ N/mm}^2$ .	4	L3	CO2
<b>Module – 3</b>					
5	a.	What is thermocouple? Describe the seeback effect and the Peltier effect.	8	L2	CO2
	b.	Describe the construction of and working of thermoelectric cooler.	7	L2	CO2
	c.	EMF of a thermocouple is 1200 $\mu\text{V}$ , when working between $0^\circ\text{C}$ and $100^\circ\text{C}$ . Its neutral temperature is $300^\circ\text{C}$ . Find the values of a and b for it.	5	L3	CO2
<b>1 of 2</b>					

## OR

6	a.	State and explain Laws of thermoelectricity.	8	L2	CO2
	b.	Explain the construction and working of thermo couples. Mention their advantages.	7	L2	CO2
	c.	The e.m.f in lead-iron thermocouple, one junction of which is at 0°C, is given by $E = 1784t - 2.41t^2$ (in $\mu$ Volt) where t is temperature in °C. Find the neutral temperature, $\pi$ and $\sigma$ .	5	L3	CO2

## Module – 4

7	a.	Explain Joule Thomson effect. Derive $\Delta T$ ; $\Delta T = (P_1 - P_2)/C_p [2a/RT - b]$ .	8	L2	CO3
	b.	Describe the process of liquefaction of oxygen by cascade process.	8	L2	CO3
	c.	Calculate inversion temperature of gas. Given $a = 0.244 \text{ atm L}^2/\text{mol}^2$ , $b = 0.027 \text{ L/Mol}$ and $R = 0.0821 \text{ L atm /K/mol}$ .	4	L3	CO3

## OR

8	a.	Describe construction and working of porous plug experiment. What conclusions have been drawn from it?	8	L2	CO3
	b.	Describe construction and working of platinum resistance thermometer.	8	L2	CO3
	c.	Mention the properties of Liquid Helium.	4	L3	CO3

## Module – 5

9	a.	With neat diagram, explain the principle, construction and working of atomic force microscopy.	8	L2	CO4
	b.	Determine the construction and working of transmission electron microscope (TEM)	8	L2	CO4
	c.	The spacing between principle planes of NaCl crystal is $2.82 \text{ \AA}$ . It is found that first order Bragg reflection occurs at an angle of $10^\circ$ . Calculate the wavelength of X-rays.	4	L3	CO4

## OR

10	a.	With neat diagram, explain the principle, construction and working of scanning electron microscopy.	8	L2	CO4
	b.	Explain the construction and working of X-ray diffractometer and how the crystal size is determined using Scherrer equation.	8	L2	CO4
	c.	Determine the crystallite size given the wavelength of x-ray $10 \text{ nm}$ , the peak width $0.5^\circ$ and peak position $25^\circ$ for a cubic crystal given $K = 0.94$ .	4	L3	CO4

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**First / Second Semester B.E./B.Tech. Degree Examination,  
Dec.2024/Jan.2025**

**Applied Physics for CSE Stream**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.*

*2. M : Marks , L: Bloom's level , C: Course outcomes.*

*3. VTU Handbook is permitted.*

Module – 1				M	L	C
Q.1	a.	Obtain the expression for energy density equation using Einstein's coefficients at thermal equilibrium condition.		9	L2	CO1
	b.	Discuss the types of optical fibers based on modes of Propagation and Refractive Index profile.		6	L2	CO1
	c.	Given the numerical aperture 0.30 and RI of core 1.49. Calculate the critical angle for the core – cladding interface.		5	L3	CO1
OR						
Q.2	a.	Illustrate the construction and working of semiconductor laser with a neat sketch with energy level diagram.		8	L2	CO1
	b.	Define Acceptance angle and Numerical aperture and hence derive an expression for Numerical aperture in terms of Refractive Indices of core, cladding and surrounding.		7	L2	CO1
	c.	In an optical fiber experiment the LASER light propagating through optical fibre cable of 1.5m, made a spot diameter of 8mm on the screen. The distance between the end of the optical fibre cable and the screen is 0.031m. Calculate angle of contact and N.A of given optical fibre.		5	L3	CO5
Module – 2						
Q.3	a.	Derive an expression for de Broglie wavelength by analogy and hence discuss the significance of de Broglie waves.		6	L2	CO2
	b.	Set – up Schrodinger time independent wave equation in one dimension.		9	L2	CO2
	c.	Calculate the energy of the first three energy states for an electron in one dimensional potential well of width 0.1nm.		5	L3	CO2
OR						
Q.4	a.	State and explain Heisenberg's uncertainty principle and show that electron does not exist inside the nucleus using Heisenberg's uncertainty principle.		7	L2	CO2
	b.	Explain Eigen values and Eigen functions and hence derive the Eigen function of a particle inside infinite potential well of width 'a' using the method of Normalization.		8	L2	CO2

	c.	The kinetic energy of an electron is equal to the energy of a photon with a wave length of 560 nm. Calculate the de Broglie wave length of the electron.	5	L3	CO2
<b>Module – 3</b>					
Q.5	a.	State the Pauli matrices and apply Pauli matrices on the states $ 0\rangle$ and $ 1\rangle$ .	9	L2	CO2
	b.	Discuss the CNOT gate and its operation on four different input states.	6	L2	CO2
	c.	Given $ \Psi\rangle = \begin{pmatrix} \alpha_1 \\ \alpha_2 \end{pmatrix}$ and $ \phi\rangle = \begin{pmatrix} \beta_1 \\ \beta_2 \end{pmatrix}$ , Prove that $\langle \Psi   \phi \rangle = \langle \phi   \Psi \rangle^*$ .	5	L3	CO2
<b>OR</b>					
Q.6	a.	Explain the representation of qubit using Bloch sphere.	7	L2	CO3
	b.	Describe the working of controlled – Z gate mentioning its matrix representation and truth table.	8	L3	CO3
	c.	A linear operator 'X' operates such that $X 0\rangle =  1\rangle$ and $X 1\rangle =  0\rangle$ . Find the matrix representation of 'X'.	5	L3	CO3
<b>Module – 4</b>					
Q.7	a.	Enumerate the assumptions of Quantum free electron theory of metals and mention the failures and classical free electron theory.	7	L2	CO3
	b.	Describe Meissner effect and hence classify superconductors into Soft and Hard super conductors using M – H graphs.	8	L2	CO3
	c.	Calculate the probability of occupation of an energy level 0.2eV above Fermi level at temperature 27°C.	5	L3	CO3
<b>OR</b>					
Q.8	a.	Define Fermi factor and discuss the variation of Fermi factor with temperature and energy.	7	L2	CO3
	b.	Explain the phenomenon of superconductivity and discuss qualitatively the BCS theory of super conductivity for negligible resistance of metal at temperature close to absolute zero.	8	L2	CO3
	c.	A superconductivity Tin has a critical temperature of 3.7K at zero magnetic field and a critical field of 0.0306 Tesla at 0°K. Find the critical field at 2K.	5	L3	CO3
<b>Module – 5</b>					
Q.9	a.	Elucidate the importance of size and scale , weight and strength in animations.	8	L2	CO4
	b.	Discuss the salient features of normal distribution using bell curves.	7	L2	CO4

	<b>c.</b>	A slowing object in an animations has a first frame distance 0.5m and the first slow in frame 0.35m. Calculate the base distance and the number of frames in sequence.	<b>5</b>	<b>L3</b>	<b>CO4</b>
<b>OR</b>					
<b>Q.10</b>	<b>a.</b>	Describe Jumping and parts of Jump.	<b>8</b>	<b>L2</b>	<b>CO4</b>
	<b>b.</b>	Discuss modeling the probability for proton decay.	<b>7</b>	<b>L2</b>	<b>CO4</b>
	<b>c.</b>	In a diffraction grating experiment the laser light undergoes second order diffraction for diffraction angle $1.48^\circ$ . The grating constant $d = 5.05 \times 10^{-5}\text{m}$ and the distance between the grating and screen is 0.60m. Find the wavelength of LASER light.	<b>5</b>	<b>L3</b>	<b>CO5</b>

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# CBCS SCHEME

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BPLCK105B

**First Semester B.E/B.Tech. Degree Examination, Dec.2024/Jan.2025**

## Introduction to Python Programming

Time: 3 hrs.

Max. Marks:100

**Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
1	a.	Explain basic data types like int, float, double and string with an example.	6	L2	CO1
	b.	Differentiate between local scope and global scope.	6	L2	CO1
	c.	Develop a program to calculate factorial of a number. Program to compute binomial coefficient (Given N and R).	8	L3	CO1
OR					
2	a.	Define functions. Explain how to pass parameters through the function with return statement.	6	L2	CO1
	b.	What is exception? How exception are handled in python? Write a program to solve divide by zero exception.	6	L2	CO1
	c.	Develop a program to generate Fibonacci sequence of length (N). Read N from the console.	8	L3	CO1
Module – 2					
3	a.	Explain Augmented short hand assignment operators with an example.	7	L2	CO2
	b.	Explain different type of methods like append( ), Remove( ), sort( ), pop( ) in python programming list.	7	L2	CO2
	c.	Develop a program to find mean, variance and standard deviation.	6	L3	CO3
OR					
4	a.	Explain set( ) and setdefault( ) method in dictionary.	7	L2	CO2
	b.	Develop a python to print area of rectangle.	6	L3	CO2
	c.	Define pretty printing. How does pretty print work in python with an example.	7	L2	CO2
Module – 3					
5	a.	Explain useful string functions like : i) Capitalize ii) Count iii) Find iv) Lower v) Upper vi) Replace with an example.	8	L2	CO3
	b.	Develop a python code to determine whether given string is a palindrome or not a palindrome.	6	L3	CO3
	c.	Explain : i) isalpha ii) isalnum iii) isspace( ).	6	L2	CO3

## OR

6	a.	Explain OS path module with an example.	6	L3	CO2
	b.	Explain the concept of file path. Also discuss absolute and relative file path.	8	L3	CO3
	c.	Program to print of multi clipboard with appropriate message.	6	L3	CO3

## Module – 4

7	a.	Develop a program to backing up a given folder (folder in a current working directory) into a zip file by using relevant modules and suitable methods.	6	L3	CO4
	b.	List out the difference between <code>shutil.copy()</code> and <code>shutil.copytree()</code> method.	6	L1	CO4
	c.	Explain the following file operations in python with suitable example : i) Copying files and folders ii) Moving files and folders iii) Permanently deleting files and folders.	8	L2	CO4

## OR

8	a.	Briefly explain assertion and raising a exception.	8	L2	CO4
	b.	List out the benefits of using logging module with an example.	6	L1	CO4
	c.	Write a function named <code>DivExp</code> which takes two parameters a, b and returns a value $C(c = a/b)$ . Write suitable assertion for a 70 in function <code>DivExp</code> and raise an exception for when $b = 0$ . Develop a suitable program which reads two values from the console and calls a function <code>DivExp</code> .	6	L3	CO4

## Module – 5

9	a.	Define a function which takes two objects representing complex numbers and returns a new complex number with a addition of two complex numbers. Define a suitable class 'complex' to represent the complex number. Develop a program to read $N(N \geq 2)$ complex numbers and compute the addition of 10 complex numbers.	8	L3	CO5
	b.	Explain the concept of inheritance with an example.	6	L2	CO5
	c.	Explain the <code>__str__</code> and the <code>__init__</code> method with an example.	6	L2	CO5

## OR

10	a.	Define a class and object, construct the class called rectangle and initialize it with height = 100, width = 200, starting point as (x = 0, y = 0). Write a program to display the centre point co-ordinates of a rectangle.	8	L3	CO5
	b.	Briefly explain the printing of objects with an example.	6	L2	CO5
	c.	Differentiate operator over loading and operator overriding in python.	6	L2	CO5

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BPOPS103/203

## First/Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Principles of Programming using C

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	List and explain any 5 characteristics of a computer.	10	L2	CO1
	b.	Draw the block diagram of a computer, explain all of its blocks such as input, output storage and CPU.	10	L2	CO1
OR					
Q.2	a.	Explain the following programming paradigms. i) Procedural programming ii) Object-oriented programming	10	L2	CO1
	b.	Explain the structure of a C program with an example.	10	L2	CO1
Module – 2					
Q.3	a.	Explain Arithmetic and Relational operators of C with an example.	10	L2	CO2
	b.	Develop a complete C program to find the real roots of a quadratic equation by accepting the coefficients.	10	L3	CO2
OR					
Q.4	a.	Explain logical and assignment operators of C with an example.	10	L2	CO2
	b.	Write a C program to find the factorial of a given integer n. Explain the computation process.	10	L3	CO2
Module – 3					
Q.5	a.	Write a C program to find the sum and average of n integers.	10	L3	CO3
	b.	Explain the concept of function declaration and function definition with an example.	10	L2	CO5
OR					
Q.6	a.	Write a C program to add two m×n matrices.	10	L3	CO3
	b.	Explain the following with an example. i) Passing the entire array ii) Passing the individual elements of an ID array.	10	L2	CO5
Module – 4					
Q.7	a.	Write a C program to find the length of a given string without using inbuilt function.	10	L2	CO3
	b.	What is a pointer? Show the use of two pointer operators & and *.	10	L2	CO3

OR					
Q.8	a.	Write a C program to compare two given string S1 and S2 without using inbuilt function.	10	L3	CO3
	b.	How do you declare and initialize a pointer in C? Show with an example.	10	L2	CO3
Module – 5					
Q.9	a.	What is recursion? Give one example.	10	L2	CO5
	b.	Differentiate between arrays and structures in C.	10	L3	CO4
OR					
Q.10	a.	Explain the process of opening and closing a file in C.	10	L2	CO5
	b.	Differentiate between structure and unions in C with example programs.	10	L3	CO4

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Question Paper Version : A

**First / Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025**

**Professional Writing Skills in English**

Time: 1 hr.]

[Max. Marks: 50

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

- 
1. Identify the correct phrasal verb "I need to \_\_\_\_\_ my old clothes to make space for the new ones".  
a) thrown in                      b) thrown off                      c) thrown out                      d) thrown up
  2. Which phrasal verb means "to begin to understand something"?  
a) Catch on                      b) Hold on                      c) Put on                      d) Turn on
  3. Choose the correct phrasal verb to complete the sentence :  
"I need to \_\_\_\_\_ this report before tomorrow's meeting".  
a) bring up                      b) bring out                      c) bring in                      d) bring forward
  4. What is the meaning of the word "Capricious"?  
a) Friendly and outgoing                      b) Predictable and reliable  
c) Unpredictable and impulsive                      d) Serious and solemn
  5. Choose the correct definition of "Obfuscate".  
a) To clarify or elucidate                      b) To confuse or obscure  
c) To enlighten or illuminate                      d) To simplify or streamline
  6. What does the word "cogent" mean?  
a) Weak or unconvincing                      b) Clear, logical and convincing  
c) Indecisive or hesitant                      d) Fanciful or imaginative
  7. Select the synonym for "perfidious".  
a) Loyal                      b) Trustworthy                      c) Faithful                      d) Treacherous



8. Arrange the following sentences in the correct order :
- i) He woke up early in the morning      ii) After breakfast, he went for a jog  
 iii) Then, he took a shower      iv) Finally, he got ready for work.  
 a) i , ii , iii , iv      b) iii , ii , i , iv      c) ii , iv , iii , i      d) iv , iii , ii , i
9. Arrange the following sentences to form a coherent paragraph :
- i) The company announced a new product launch.  
 ii) Customers eagerly awaited the release  
 iii) The product received positive reviews from critics.  
 iv) Sales exceeded expectations.  
 a) i , ii , iii , iv      b) iii , ii , i , iv      c) ii , iii , iv , i      d) ii , i , iii , iv
10. Identify the error in the sentence : “She don’t have enough time to finish the project”.
- a) she      b) don’t      c) have      d) enough
11. Choose the correct sentence :
- a) The children is playing in the park yesterday  
 b) The children was playing in the park yesterday  
 c) The children were playing in the park yesterday  
 d) The children are playing in the park yesterday.
12. Identify the error in sentence : “The price of these shoes are too high”.
- a) The price      b) of these shoes      c) are      d) too high
13. Choose the correct sentence :
- a) She enjoys to read      b) She enjoys reading  
 c) She enjoys reads      d) She enjoys read
14. Identify the error in the sentence : “He speak French fluently”.
- a) He      b) Speak      c) French fluently      d) No error
15. Choose the correct sentence :
- a) The news are interesting      b) The news is interesting  
 c) The news were interesting      d) The news an interesting
16. Which option best completes the collocation : “\_\_\_\_\_ a shower”?
- a) Take      b) Do      c) Make      d) Have
17. Identify the correct collocation : “\_\_\_\_\_ a cup of coffee”.
- a) Make      b) Do      c) Have      d) Take
18. Choose the correct collocation : “\_\_\_\_\_ a decision”.
- a) Make      b) Do      c) Have      d) Take
19. What is the contraction of “they are”?
- a) Their      b) They’re      c) There      d) Theres
20. Choose the correct contraction : “He will not” becomes \_\_\_\_\_.
- a) He’ll not      b) He’s not      c) He won’t      d) He’sn’t
21. Identify the contraction of “could not” :
- a) Couldn’t      b) Could’nt      c) Could’not      d) Could’nat

22. What is the correct word order for a question in English?  
 a) Subject – Verb - Object                      b) Object – Verb – Subject  
 c) Verb – Subject - Object                      d) Subject – Object - Verb
23. Which option represents the correct word order for an affirmative sentence in English?  
 a) Subject – Object - Verb                      b) Object – Verb – Subject  
 c) Verb – Subject - Object                      d) Subject – Verb - Object
24. Choose the correct word order for a negative sentence in English :  
 a) Object – Verb – Subject                      b) Subject – Verb - Object  
 c) Verb – Subject - Object                      d) Subject – Object - Verb
25. Identify the correct word order for a sentence in English :  
 a) She eats breakfast every morning                      b) Eats she breakfast every morning  
 c) Every morning she eats breakfast                      d) East breakfast she every morning
26. Choose the sentence in the passive voice :  
 a) She wrote a letter                      b) A letter was written by her  
 c) She is writing a letter                      d) She has written a letter
27. Choose the sentence with the correct transformation into reported speech :  
 “He said, “I will help you tomorrow”.”  
 a) He said that he would help me the next day  
 b) He says that he will help me tomorrow  
 c) He said that he help me tomorrow  
 d) He said that he helped me the next day
28. Which part of the sentence contains the error :  
 “The children is playing in the park yesterday”.  
 a) The children                      b) is playing                      c) in the park                      d) yesterday
29. Find the error in the sentence : “He are a talented musician”.  
 a) He                      b) are                      c) a talented musician                      d) No error
30. Where is the error in the sentence : “The cake is laying on the table”.  
 a) The cake                      b) is laying                      c) on the table                      d) No error
31. Identify the correct usage of the word “whom” :  
 a) To who shall I address this letter?                      b) Whom did you see at the party?  
 c) Whom is responsible for this mess?                      d) Whom wants to go to the concert?
32. Choose the correct transformation of the sentence into reported speech :  
 “She said, ‘I have already finished my work’.”  
 a) She said that she already finished her work  
 b) She says that she has already finished her work  
 c) She said that she had already finished her work  
 d) She says that she had already finished her work.

33. Select the option with correct subject – verb agreement :
- The committee is discussing the issue now
  - The committee are discussing the issue now
  - The committee were discussing the issue now
  - The committee am discussing the issue now.
34. Identify the error in the sentence : “She don’t have enough time to finish the project”.
- She
  - don’t
  - have
  - enough
35. Which part of the sentence contains the error :  
“The children are playing in the park yesterday”.
- The children
  - are playing
  - in the park
  - yesterday
36. Find the error in the sentence : “He are a talented musician”.
- He
  - are
  - a talented musician
  - No error
37. Where is the error in the sentence : “The cake is laying on the table”.
- The cake
  - is laying
  - on the table
  - No error
38. Which sentence demonstrates correct subject – verb agreement?
- There is many books on the shelf
  - There are many books on the shelf
  - There was many books on the shelf
  - There were many books on the shelf
39. Identify the sentence with correct subject – verb agreement :
- Neither of the boys are going to the party
  - Neither of the boys is going to the party
  - Neither of the boys were going to the party
  - Neither of the boys am going to the party
40. Choose the sentence with correct subject – verb agreement :
- The news are interesting
  - The news is interesting
  - The news were interesting
  - The news am interesting
41. Identify the sentence with correct subject – verb agreement :
- The majority of the population is happy with the new policy
  - The majority of the population are happy with the new policy
  - The majority of the population were happy with the new policy
  - The majority of the population am happy with the new policy
42. Choose the sentence with correct subject – verb agreement :
- My family is going on vacation next week
  - My family are going on vacation next week
  - My family were going on vacation next week
  - My family am going on vacation next week
43. Identify the sentence with correct subject – verb agreement :
- The price of these shoes are too high
  - The price of these shoes is too high
  - The price of these shoes were too high
  - The price of these shoes am too high

44. Choose the correct form of the verb to complete the sentence :  
“She \_\_\_\_\_ her homework before dinner”.  
a) finish                      b) finishes                      c) finished                      d) finishing
45. Which sentence uses the verb “to swim” in the past tense correctly?  
a) She swimmmed across the lake                      b) She swam across the lake  
c) She swims across the lake                      d) She has swum across the lake
46. Identify the sentence with the correct form of the verb “to be” in the present progressive tense :  
a) He are studying for the exam                      b) He am studying for the exam  
c) He is studying for the exam                      d) He be studying for the exam
47. Choose the correct idiom to complete the sentence :  
“She was able to think on her \_\_\_\_\_ during the presentation”.  
a) head                      b) feet                      c) nose                      d) ears
48. Which idiom means “to tell someone a secret”?  
a) Spill the beans                      b) Hit the sack                      c) Kick the bucket                      d) Break the ice
49. Choose the correct phrasal verb to complete the sentence :  
“Can you please \_\_\_\_\_ the window? It’s getting hot in here”.  
a) break up                      b) break down                      c) break in                      d) break out
50. What does the phrasal verb “to put off” mean?  
a) To postpone                      b) To turn off                      c) To put away                      d) To put on

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Question Paper Version : B

**First / Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025**

**Professional Writing Skills in English**

Time: 1 hr.]

[Max. Marks: 50

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

- 
1. Identify the sentence with correct subject – verb agreement :
    - a) The majority of the population is happy with the new policy
    - b) The majority of the population are happy with the new policy
    - c) The majority of the population were happy with the new policy
    - d) The majority of the population am happy with the new policy
  2. Choose the sentence with correct subject – verb agreement :
    - a) My family is going on vacation next week
    - b) My family are going on vacation next week
    - c) My family were going on vacation next week
    - d) My family am going on vacation next week
  3. Identify the sentence with correct subject – verb agreement :
    - a) The price of these shoes are too high
    - b) The price of these shoes is too high
    - c) The price of these shoes were too high
    - d) The price of these shoes am too high
  4. Choose the correct form of the verb to complete the sentence :  
 “She \_\_\_\_\_ her homework before dinner”.
    - a) finish
    - b) finishes
    - c) finished
    - d) finishing
  5. Which sentence uses the verb “to swim” in the past tense correctly?
    - a) She swimmmed across the lake
    - b) She swam across the lake
    - c) She swims across the lake
    - d) She has swum across the lake
  6. Identify the sentence with the correct form of the verb “to be” in the present progressive tense :
    - a) He are studying for the exam
    - b) He am studying for the exam
    - c) He is studying for the exam
    - d) He be studying for the exam

Ver – B – 1 of 5

7. Choose the correct idiom to complete the sentence :  
 “She was able to think on her \_\_\_\_\_ during the presentation”.  
 a) head                      b) feet                      c) nose                      d) ears
8. Which idiom means “to tell someone a secret”?  
 a) Spill the beans      b) Hit the sack      c) Kick the bucket      d) Break the ice
9. Choose the correct phrasal verb to complete the sentence :  
 “Can you please \_\_\_\_\_ the window? It’s getting hot in here”.  
 a) break up                      b) break down                      c) break in                      d) break out
10. What does the phrasal verb “to put off” mean?  
 a) To postpone                      b) To turn off                      c) To put away                      d) To put on
11. Identify the correct usage of the word “whom” :  
 a) To who shall I address this letter?                      b) Whom did you see at the party?  
 c) Whom is responsible for this mess?                      d) Whom wants to go to the concert?
12. Choose the correct transformation of the sentence into reported speech :  
 “She said, ‘I have already finished my work’”.  
 a) She said that she already finished her work  
 b) She says that she has already finished her work  
 c) She said that she had already finished her work  
 d) She says that she had already finished her work.
13. Select the option with correct subject – verb agreement :  
 a) The committee is discussing the issue now  
 b) The committee are discussing the issue now  
 c) The committee were discussing the issue now  
 d) The committee am discussing the issue now.
14. Identify the error in the sentence : “She don’t have enough time to finish the project”.  
 a) She                      b) don’t                      c) have                      d) enough
15. Which part of the sentence contains the error :  
 “The children are playing in the park yesterday”.  
 a) The children                      b) are playing                      c) in the park                      d) yesterday
16. Find the error in the sentence : “He are a talented musician”.  
 a) He                      b) are                      c) a talented musician                      d) No error
17. Where is the error in the sentence : “The cake is laying on the table”.  
 a) The cake                      b) is laying                      c) on the table                      d) No error
18. Which sentence demonstrates correct subject – verb agreement?  
 a) There is many books on the shelf                      b) There are many books on the shelf  
 c) There was many books on the shelf                      d) There were many books on the shelf

19. Identify the sentence with correct subject – verb agreement :
- Neither of the boys are going to the party
  - Neither of the boys is going to the party
  - Neither of the boys were going to the party
  - Neither of the boys am going to the party
20. Choose the sentence with correct subject – verb agreement :
- The news are interesting
  - The news is interesting
  - The news were interesting
  - The news am interesting
21. Choose the correct sentence :
- The children is playing in the park yesterday
  - The children was playing in the park yesterday
  - The children were playing in the park yesterday
  - The children are playing in the park yesterday.
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  - too high
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  - She enjoys reads
  - She enjoys read
24. Identify the error in the sentence : “He speak French fluently”.
- He
  - Speak
  - French fluently
  - No error
25. Choose the correct sentence :
- The news are interesting
  - The news is interesting
  - The news were interesting
  - The news an interesting
26. Which option best completes the collocation : “\_\_\_\_\_ a shower”?
- Take
  - Do
  - Make
  - Have
27. Identify the correct collocation : “\_\_\_\_\_ a cup of coffee”.
- Make
  - Do
  - Have
  - Take
28. Choose the correct collocation : “\_\_\_\_\_ a decision”.
- Make
  - Do
  - Have
  - Take
29. What is the contraction of “they are”?
- Their
  - They’re
  - There
  - Theres
30. Choose the correct contraction : “He will not” becomes \_\_\_\_\_.
- He’ll not
  - He’s not
  - He won’t
  - He’sn’t
31. Identify the correct phrasal verb “I need to \_\_\_\_\_ my old clothes to make space for the new ones”.
- thrown in
  - thrown off
  - thrown out
  - thrown up
32. Which phrasal verb means “to begin to understand something”?
- Catch on
  - Hold on
  - Put on
  - Turn on



33. Choose the correct phrasal verb to complete the sentence :  
 “I need to \_\_\_\_\_ this report before tomorrow’s meeting”.  
 a) bring up                      b) bring out                      c) bring in                      d) bring forward
34. What is the meaning of the word “Capricious”?  
 a) Friendly and outgoing                      b) Predictable and reliable  
 c) Unpredictable and impulsive                      d) Serious and solemn
35. Choose the correct definition of “Obfuscate”.  
 a) To clarify of elucidate                      b) To confuse or obscure  
 c) To enlighten of illuminate                      d) To simplify or streamline
36. What does the word “cogent” mean?  
 a) Weak or unconvincing                      b) Clear, logical and convincing  
 c) Indecisive or hesitant                      d) Fanciful or imaginative
37. Select the synonym for “perfidious”.  
 a) Loyal                      b) Trustworthy                      c) Faithful                      d) Treacherous
38. Arrange the following sentences in the correct order :  
 i) He woke up early in the morning                      ii) After breakfast, he went for a jog  
 iii) Then, he took a shower                      iv) Finally, he got ready for work.  
 a) i , ii , iii , iv                      b) iii , ii , i , iv                      c) ii , iv , iii , i                      d) iv , iii , ii , i
39. Arrange the following sentences to form a coherent paragraph :  
 i) The company announced a new product launch.  
 ii) Customers eagerly awaited the release  
 iii) The product received positive reviews from critics.  
 iv) Sales exceeded expectations.  
 a) i , ii , iii , iv                      b) iii , ii , i , iv                      c) ii , iii , iv , i                      d) ii , i , iii , iv
40. Identify the error in the sentence : “She don’t have enough time to finish the project”.  
 a) she                      b) don’t                      c) have                      d) enough
41. Identify the contraction of “could not” :  
 a) Couldn’t                      b) Could’nt                      c) Could’not                      d) Could’nat
42. What is the correct word order for a question in English?  
 a) Subject – Verb - Object                      b) Object – Verb – Subject  
 c) Verb – Subject - Object                      d) Subject – Object - Verb
43. Which option represents the correct word order for an affirmative sentence in English?  
 a) Subject – Object - Verb                      b) Object – Verb – Subject  
 c) Verb – Subject - Object                      d) Subject – Verb - Object
44. Choose the correct word order for a negative sentence in English :  
 a) Object – Verb – Subject                      b) Subject – Verb - Object  
 c) Verb – Subject - Object                      d) Subject – Object - Verb

45. Identify the correct word order for a sentence in English :  
a) She eats breakfast every morning      b) Eats she breakfast every morning  
c) Every morning she eats breakfast      d) East breakfast she every morning
46. Choose the sentence in the passive voice :  
a) She wrote a letter      b) A letter was written by her  
c) She is writing a letter      d) She has written a letter
47. Choose the sentence with the correct transformation into reported speech :  
“He said, “I will help you tomorrow”.”  
a) He said that he would help me the next day  
b) He says that he will help me tomorrow  
c) He said that he help me tomorrow  
d) He said that he helped me the next day
48. Which part of the sentence contains the error :  
“The children is playing in the park yesterday”.  
a) The children      b) is playing      c) in the park      d) yesterday
49. Find the error in the sentence : “He are a talented musician”.  
a) He      b) are      c) a talented musician      d) No error
50. Where is the error in the sentence : “The cake is laying on the table”.  
a) The cake      b) is laying      c) on the table      d) No error

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Question Paper Version : C

**First / Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025**

**Professional Writing Skills in English**

Time: 1 hr.]

[Max. Marks: 50

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

- 
1. Identify the contraction of "could not" :  
a) Couldn't                      b) Could'nt                      c) Could'not                      d) Could'nat
  2. What is the correct word order for a question in English?  
a) Subject – Verb - Object                      b) Object – Verb – Subject  
c) Verb – Subject - Object                      d) Subject – Object - Verb
  3. Which option represents the correct word order for an affirmative sentence in English?  
a) Subject – Object - Verb                      b) Object – Verb – Subject  
c) Verb – Subject - Object                      d) Subject – Verb - Object
  4. Choose the correct word order for a negative sentence in English :  
a) Object – Verb – Subject                      b) Subject – Verb - Object  
c) Verb – Subject - Object                      d) Subject – Object - Verb
  5. Identify the correct word order for a sentence in English :  
a) She eats breakfast every morning                      b) Eats she breakfast every morning  
c) Every morning she eats breakfast                      d) East breakfast she every morning
  6. Choose the sentence in the passive voice :  
a) She wrote a letter                      b) A letter was written by her  
c) She is writing a letter                      d) She has written a letter

7. Choose the sentence with the correct transformation into reported speech :  
 "He said, "I will help you tomorrow".  
 a) He said that he would help me the next day  
 b) He says that he will help me tomorrow  
 c) He said that he help me tomorrow  
 d) He said that he helped me the next day
8. Which part of the sentence contains the error :  
 "The children is playing in the park yesterday".  
 a) The children      b) is playing      c) in the park      d) yesterday
9. Find the error in the sentence : "He are a talented musician".  
 a) He      b) are      c) a talented musician      d) No error
10. Where is the error in the sentence : "The cake is laying on the table".  
 a) The cake      b) is laying      c) on the table      d) No error
11. Identify the sentence with correct subject – verb agreement :  
 a) The majority of the population is happy with the new policy  
 b) The majority of the population are happy with the new policy  
 c) The majority of the population were happy with the new policy  
 d) The majority of the population am happy with the new policy
12. Choose the sentence with correct subject – verb agreement :  
 a) My family is going on vacation next week  
 b) My family are going on vacation next week  
 c) My family were going on vacation next week  
 d) My family am going on vacation next week
13. Identify the sentence with correct subject – verb agreement :  
 a) The price of these shoes are too high      b) The price of these shoes is too high  
 c) The price of these shoes were too high      d) The price of these shoes am too high
14. Choose the correct form of the verb to complete the sentence :  
 "She \_\_\_\_\_ her homework before dinner".  
 a) finish      b) finishes      c) finished      d) finishing
15. Which sentence uses the verb "to swim" in the past tense correctly?  
 a) She swimmied across the lake      b) She swam across the lake  
 c) She swims across the lake      d) She has swum across the lake
16. Identify the sentence with the correct form of the verb "to be" in the present progressive tense :  
 a) He are studying for the exam      b) He am studying for the exam  
 c) He is studying for the exam      d) He be studying for the exam
17. Choose the correct idiom to complete the sentence :  
 "She was able to think on her \_\_\_\_\_ during the presentation".  
 a) head      b) feet      c) nose      d) ears

18. Which idiom means “to tell someone a secret”?  
 a) Spill the beans      b) Hit the sack      c) Kick the bucket      d) Break the ice
19. Choose the correct phrasal verb to complete the sentence :  
 “Can you please \_\_\_\_\_ the window? It’s getting hot in here”.  
 a) break up      b) break down      c) break in      d) break out
20. What does the phrasal verb “to put off” mean?  
 a) To postpone      b) To turn off      c) To put away      d) To put on
21. Identify the correct usage of the word “whom” :  
 a) To who shall I address this letter?      b) Whom did you see at the party?  
 c) Whom is responsible for this mess?      d) Whom wants to go to the concert?
22. Choose the correct transformation of the sentence into reported speech :  
 “She said, ‘I have already finished my work’”.  
 a) She said that she already finished her work  
 b) She says that she has already finished her work  
 c) She said that she had already finished her work  
 d) She says that she had already finished her work.
23. Select the option with correct subject – verb agreement :  
 a) The committee is discussing the issue now  
 b) The committee are discussing the issue now  
 c) The committee were discussing the issue now  
 d) The committee am discussing the issue now.
24. Identify the error in the sentence : “She don’t have enough time to finish the project”.  
 a) She      b) don’t      c) have      d) enough
25. Which part of the sentence contains the error :  
 “The children are playing in the park yesterday”.  
 a) The children      b) are playing      c) in the park      d) yesterday
26. Find the error in the sentence : “He are a talented musician”.  
 a) He      b) are      c) a talented musician      d) No error
27. Where is the error in the sentence : “The cake is laying on the table”.  
 a) The cake      b) is laying      c) on the table      d) No error
28. Which sentence demonstrates correct subject – verb agreement?  
 a) There is many books on the shelf      b) There are many books on the shelf  
 c) There was many books on the shelf      d) There were many books on the shelf
29. Identify the sentence with correct subject – verb agreement :  
 a) Neither of the boys are going to the party  
 b) Neither of the boys is going to the party  
 c) Neither of the boys were going to the party  
 d) Neither of the boys am going to the party

30. Choose the sentence with correct subject – verb agreement :
- The news are interesting
  - The news is interesting
  - The news were interesting
  - The news am interesting
31. Choose the correct sentence :
- The children is playing in the park yesterday
  - The children was playing in the park yesterday
  - The children were playing in the park yesterday
  - The children are playing in the park yesterday.
32. Identify the error in sentence : “The price of these shoes are too high”.
- The price
  - of these shoes
  - are
  - too high
33. Choose the correct sentence :
- She enjoys to read
  - She enjoys reading
  - She enjoys reads
  - She enjoys read
34. Identify the error in the sentence : “He speak French fluently”.
- He
  - Speak
  - French fluently
  - No error
35. Choose the correct sentence :
- The news are interesting
  - The news is interesting
  - The news were interesting
  - The news an interesting
36. Which option best completes the collocation : “\_\_\_\_\_ a shower”?
- Take
  - Do
  - Make
  - Have
37. Identify the correct collocation : “\_\_\_\_\_ a cup of coffee”.
- Make
  - Do
  - Have
  - Take
38. Choose the correct collocation : “\_\_\_\_\_ a decision”.
- Make
  - Do
  - Have
  - Take
39. What is the contraction of “they are”?
- Their
  - They’re
  - There
  - Theres
40. Choose the correct contraction : “He will not” becomes \_\_\_\_\_.
- He’ll not
  - He’s not
  - He won’t
  - He’sn’t
41. Identify the correct phrasal verb “I need to \_\_\_\_\_ my old clothes to make space for the new ones”.
- thrown in
  - thrown off
  - thrown out
  - thrown up
42. Which phrasal verb means “to begin to understand something”?
- Catch on
  - Hold on
  - Put on
  - Turn on
43. Choose the correct phrasal verb to complete the sentence :
- “I need to \_\_\_\_\_ this report before tomorrow’s meeting”.
- bring up
  - bring out
  - bring in
  - bring forward

44. What is the meaning of the word “Capricious”?
- a) Friendly and outgoing                      b) Predictable and reliable  
c) Unpredictable and impulsive              d) Serious and solemn
45. Choose the correct definition of “Obfuscate”.
- a) To clarify or elucidate                      b) To confuse or obscure  
c) To enlighten or illuminate                  d) To simplify or streamline
46. What does the word “cogent” mean?
- a) Weak or unconvincing                      b) Clear, logical and convincing  
c) Indecisive or hesitant                      d) Fanciful or imaginative
47. Select the synonym for “perfidious”.
- a) Loyal                      b) Trustworthy                      c) Faithful                      d) Treacherous
48. Arrange the following sentences in the correct order :
- i) He woke up early in the morning              ii) After breakfast, he went for a jog  
iii) Then, he took a shower                      iv) Finally, he got ready for work.  
a) i, ii, iii, iv              b) iii, ii, i, iv              c) ii, iv, iii, i              d) iv, iii, ii, i
49. Arrange the following sentences to form a coherent paragraph :
- i) The company announced a new product launch.  
ii) Customers eagerly awaited the release  
iii) The product received positive reviews from critics.  
iv) Sales exceeded expectations.  
a) i, ii, iii, iv              b) iii, ii, i, iv              c) ii, iii, iv, i              d) ii, i, iii, iv
50. Identify the error in the sentence : “She don’t have enough time to finish the project”.
- a) she                      b) don’t                      c) have                      d) enough

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Question Paper Version : D

**First / Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025**

**Professional Writing Skills in English**

Time: 1 hr.]

[Max. Marks: 50

**INSTRUCTIONS TO THE CANDIDATES**

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

- 
1. Identify the correct usage of the word "whom" :  
 a) To who shall I address this letter?      b) Whom did you see at the party?  
 c) Whom is responsible for this mess?      d) Whom wants to go to the concert?
  2. Choose the correct transformation of the sentence into reported speech :  
 "She said, 'I have already finished my work'".  
 a) She said that she already finished her work  
 b) She says that she has already finished her work  
 c) She said that she had already finished her work  
 d) She says that she had already finished her work.
  3. Select the option with correct subject – verb agreement :  
 a) The committee is discussing the issue now  
 b) The committee are discussing the issue now  
 c) The committee were discussing the issue now  
 d) The committee am discussing the issue now.
  4. Identify the error in the sentence : "She don't have enough time to finish the project".  
 a) She                                      b) don't                                      c) have                                      d) enough
  5. Which part of the sentence contains the error :  
 "The children are playing in the park yesterday".  
 a) The children                      b) are playing                      c) in the park                      d) yesterday
  6. Find the error in the sentence : "He are a talented musician".  
 a) He                                      b) are                                      c) a talented musician      d) No error

7. Where is the error in the sentence : “The cake is laying on the table”.
- a) The cake                      b) is laying                      c) on the table                      d) No error
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“She was able to think on her \_\_\_\_\_ during the presentation”.
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28. Which idiom means “to tell someone a secret”?
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“Can you please \_\_\_\_\_ the window? It’s getting hot in here”.
- a) break up      b) break down      c) break in      d) break out

30. What does the phrasal verb “to put off” mean?  
a) To postpone      b) To turn off      c) To put away      d) To put on
31. Identify the contraction of “could not” :  
a) Couldn’t      b) Could’nt      c) Could’not      d) Could’nat
32. What is the correct word order for a question in English?  
a) Subject – Verb - Object      b) Object – Verb – Subject  
c) Verb – Subject - Object      d) Subject – Object - Verb
33. Which option represents the correct word order for an affirmative sentence in English?  
a) Subject – Object - Verb      b) Object – Verb – Subject  
c) Verb – Subject - Object      d) Subject – Verb - Object
34. Choose the correct word order for a negative sentence in English :  
a) Object – Verb – Subject      b) Subject – Verb - Object  
c) Verb – Subject - Object      d) Subject – Object - Verb
35. Identify the correct word order for a sentence in English :  
a) She eats breakfast every morning      b) Eats she breakfast every morning  
c) Every morning she eats breakfast      d) East breakfast she every morning
36. Choose the sentence in the passive voice :  
a) She wrote a letter      b) A letter was written by her  
c) She is writing a letter      d) She has written a letter
37. Choose the sentence with the correct transformation into reported speech :  
“He said, “I will help you tomorrow”.”  
a) He said that he would help me the next day  
b) He says that he will help me tomorrow  
c) He said that he help me tomorrow  
d) He said that he helped me the next day
38. Which part of the sentence contains the error :  
“The children is playing in the park yesterday”.  
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39. Find the error in the sentence : “He are a talented musician”.  
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a) The cake      b) is laying      c) on the table      d) No error
41. Choose the correct sentence :  
a) The children is playing in the park yesterday  
b) The children was playing in the park yesterday  
c) The children were playing in the park yesterday  
d) The children are playing in the park yesterday.

42. Identify the error in sentence : “The price of these shoes are too high”.  
 a) The price                      b) of these shoes                      c) are                      d) too high
43. Choose the correct sentence :  
 a) She enjoys to read                      b) She enjoys reading  
 c) She enjoys reads                      d) She enjoys read
44. Identify the error in the sentence : “He speak French fluently”.  
 a) He                      b) Speak                      c) French fluently                      d) No error
45. Choose the correct sentence :  
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46. Which option best completes the collocation : “\_\_\_\_\_ a shower”?  
 a) Take                      b) Do                      c) Make                      d) Have
47. Identify the correct collocation : “\_\_\_\_\_ a cup of coffee”.  
 a) Make                      b) Do                      c) Have                      d) Take
48. Choose the correct collocation : “\_\_\_\_\_ a decision”.  
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49. What is the contraction of “they are”?  
 a) Their                      b) They're                      c) There                      d) Theres
50. Choose the correct contraction : “He will not” becomes \_\_\_\_\_.  
 a) He'll not                      b) He's not                      c) He won't                      d) He'sn't

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**Question Paper Version : A**

**First/Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025**

## Scientific Foundations of Health

Time: 1 hr.]

[Max. Marks: 50]

## INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
  2. Use only **Black ball point pen** for writing / darkening the circles.
  3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
  4. Darkening two circles for the same question makes the answer invalid.
  5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.
- 
1. Globalization , growth of trade unions, public relations and positive atmosphere are some factors that enable \_\_\_\_\_
    - a) Good friendship
    - b) Isolation from society
    - c) Happiness
    - d) Communication growth
  2. Which of the following is NOT a characteristic of addiction?
    - a) Denial
    - b) Negative consequences
    - c) Loss of control
    - d) Habitual behavior
  3. Denial is person's
    - a) Experience of a blackout episode or memory loss.
    - b) Inability to perceive that a behavior is self – destructive
    - c) Failure to stop an addictive behavior
    - d) Change in usual pattern of drinking or drug use
  4. Temporary physical and psychological symptoms that occur when use of an addictive substance is discontinued is
    - a) Relapse
    - b) Compulsion
    - c) Withdrawal
    - d) Addiction
  5. Chemicals that relay messages (impulses) from one nerve cell to another or to other cells are \_\_\_\_\_
    - a) Enzymes
    - b) Neuro transmitters
    - c) Synapses
    - d) Chemoreceptors



6. What is the definitions of overweight?  
a) BMI > 25 kg/m<sup>2</sup>                      b) BMI = 25 kg/m<sup>2</sup>  
c) BMI 25 – 29.9 kg/m<sup>2</sup>                d) BMI < 25 kg/m<sup>2</sup>
7. Communication is a part of \_\_\_\_ skills.  
a) Soft                                      b) Hard                                      c) Short                                      d) Rough
8. Which of these factors is not required for communication growth?  
a) Globalisation                                      b) Negative Atmosphere  
c) Growth size of organizations                d) Public relations
9. Body language plays an important role in  
a) Communication                      b) Judgment                      c) Both (a) & (b)                      d) None of these
10. This causes tunnel vision.  
a) Smoking                      b) Alcohol                      c) Barbiturates                      d) Vitamins A
11. This causes maximum accumulation of fat in the liver.  
a) Meat & Egg                      b) Alcohol                      c) Saturated fat                      d) Starch
12. Using abbreviations in communication leads to which type of communication barrier.  
a) Language / Linguistic                      b) Physical  
c) Cultural                                      d) Organizational
13. Obesity occurs due to ; More consumption of  
a) Calorie                      b) Protein                      c) Vitamins                      d) None of these
14. What is intimately related?  
a) Body & health                                      b) Body & mind  
c) Disease & Health                                      d) Body & Spiritual values
15. What influences your health?  
a) Heredity                                      b) Environment  
c) Physical environment                      d) All of these
16. A lack of judgment regarding whether a particular substance or behavior will be healthy of damaging to oneself is known as  
a) Denial                      b) Obsession                      c) Loss of control                      d) Compulsion
17. Which of the following diseases is transmitted by an insert vector?  
a) Malaria                      b) HIV/AIDS                      c) CTB                      d) None of these
18. Disease of the heart, joint and nervous system is called  
a) Degenerative diseases                      b) Mental diseases  
c) Communicable diseases                      d) Deficiency diseases

19. How often one must have a routine body checkup?  
a) Once in 10 year    b) Twice a year    c) Once a year    d) Once in 5 year
20. How do puzzles help you?  
a) Physical exercise    b) They are a time pass  
c) They help exercise the brain    d) They help you learn numbers
21. Alcohol based hand rub is the preferred method of hand hygiene.  
a) False    b) True    c) Not sure    d) None of these
22. Is addiction a  
a) Mental disorder    b) Physical disorder    c) Both (a) & (b)    d) None of these
23. Important roles of life are  
a) Feeling happy    b) Enjoy life    c) Fighting diseases    d) All of these
24. Signs of mental illness are  
a) Abnormal thinking , perception and judgment  
b) Abnormal changes in feeling and memory  
c) Both (a) & (b)  
d) Abnormal changes in behavior towards others.
25. People suffering from mental diseases in India.  
a) 1 – 1.5 millions    b) 6 – 7 millions    c) 10 – 15 millions    d) 60 – 70 millions
26. Social health hazards includes.  
a) Stigma    b) Anti – social behaviour  
c) Higher crime records    d) All of these
27. Hyper obesity value in terms of BMI.  
a) > 25    b) 40    c) > 40    d) < 40
28. Goals of communication.  
a) To inform , to persuade    b) To inform, fear of offending  
c) To persuade, fear of offending    d) None of these
29. In which year WHO articulated the right to health in its constitution?  
a) 2000    b) 1946    c) 1952    d) 1987
30. Spiritual health refers  
a) Body composition    b) Mediation    c) Exercising    d) All of these
31. When findings are difficult to generalize to the world outside of the laboratory, we say the research is lacking in \_\_\_\_\_ validity.  
a) Ecological    b) Economical    c) Empirical    d) Experimental



44. What is the goal of social engineering?  
a) Sabotage a person's social media      b) To build trust  
c) To gain vital personal information      d) To catfish someone.
45. After drinking Alcohol, consumption of this leads to death.  
a) Morphine      b) Opium      c) Onion      d) None of these
46. How is substance use disorder treated?  
a) Multiple types of treatment      b) Alcohol drinking  
c) Recognition of problem      d) Both (a) & (c)
47. What are proactive factors for addictions?  
a) Positive relationship      b) Drug experimentation  
c) Community poverty      d) All of these
48. Objectives of communication skill are  
a) Active listening skill      b) Aware of own communication barrier  
c) Both (a) & (b)      d) None of these
49. Post Correspondence Problem (PCP) was originally developed as  
a) A drug to induce vomiting  
b) An anesthetic used in veterinary practice  
c) An anesthetic with which person remains conscious but feels no pain  
d) An experimental psychiatric medication.
50. Which of the following statement about amphetamines is true?  
a) They are not addictive  
b) They are stimulants  
c) They have no known side effects  
d) They cause drop in heart rate and respiration rate.

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# CBCS SCHEME

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Question Paper Version : B

**First/Second Semester B.E./B.Tech Degree Examination,  
Dec.2024/Jan.2025**

## **Scientific Foundations of Health**

Time: 1 hr.]

[Max. Marks: 50

### **INSTRUCTIONS TO THE CANDIDATES**

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1. Wellness dimensions are  
a) 2                      b) 4                      c) 6                      d) 8
  2. What are the reasons for taking drug?  
a) To feel good              b) To do better              c) To feel better              d) All of these
  3. Planning refers to  
a) Communities in which they live in              b) Health services  
c) Financial stability              d) None of these
  4. What is the goal of social engineering?  
a) Sabotage a person's social media              b) To build trust  
c) To gain vital personal information              d) To catfish someone.
  5. After drinking Alcohol, consumption of this leads to death.  
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c) Recognition of problem              d) Both (a) & (c)
  7. What are proactive factors for addictions?  
a) Positive relationship              b) Drug experimentation  
c) Community poverty              d) All of these

Ver – B – 1 of 5

8. Objectives of communication skill are
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  - b) Aware of own communication barrier
  - c) Both (a) & (b)
  - d) None of these
9. Post Correspondence Problem (PCP) was originally developed as
  - a) A drug to induce vomiting
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  - c) An anesthetic with which person remains conscious but feels no pain
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12. The WHO report in 2013 estimated that Tobacco will kill as many as \_\_\_\_ people of this century if WHO framework convention on tobacco control is not implemented rapidly.
  - a) 2 Billions
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  - c) 1 Billion
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  - a) Only i
  - b) Only ii
  - c) Both i & ii
  - d) Neither i & ii.
14. Social exclusion refers to
  - a) Poverty
  - b) Old age
  - c) Mental ill health
  - d) All of these
15. Which disease spreads through open defecation?
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  - b) Malaria
  - c) Dengue
  - d) Elephantiasis
16. Emotional health refers to
  - a) Problem solving
  - b) Empathy towards others feeling
  - c) Drinking lot of water
  - d) Having good nutrition
17. Basic Instincts of human life
  - a) Self preservance
  - b) Social
  - c) Sexual
  - d) All of these
18. Signs of compulsive buying include
  - a) Purchasing only one item of your favorite color
  - b) Showing new clothes to your friends or family
  - c) Repeatedly buying more than you need or can afford
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19. The most noticeable effect of THC, the psycho active substance in marijuana is  
a) Hyper active      b) Blood shot eyes      c) Slouching posture      d) Loss of appetite
20. Emotional well being includes.  
a) Smoking      b) Drinking alcohol  
c) Stress situation management      d) None of these
21. This causes maximum accumulation of fat in the liver.  
a) Meat & Egg      b) Alcohol      c) Saturated fat      d) Starch
22. Using abbreviations in communication leads to which type of communication barrier.  
a) Language / Linguistic      b) Physical  
c) Cultural      d) Organizational
23. Obesity occurs due to ; More consumption of  
a) Calorie      b) Protein      c) Vitamins      d) None of these
24. What is intimately related?  
a) Body & health      b) Body & mind  
c) Disease & Health      d) Body & Spiritual values
25. What influences your health?  
a) Heredity      b) Environment  
c) Physical environment      d) All of these
26. A lack of judgment regarding whether a particular substance or behavior will be healthy of damaging to oneself is known as  
a) Denial      b) Obsession      c) Loss of control      d) Compulsion
27. Which of the following diseases is transmitted by an insect vector?  
a) Malaria      b) HIV/AIDS      c) CTB      d) None of these
28. Disease of the heart, joint and nervous system is called  
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a) Once in 10 years      b) Twice a year      c) Once a year      d) Once in 5 year
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31. Globalization , growth of trade unions, public relations and positive atmosphere are some factors that enable \_\_\_\_  
a) Good friendship      b) Isolation from society  
c) Happiness      d) Communication growth



32. Which of the following is NOT a characteristic of addiction?  
 a) Denial  
 b) Negative consequences  
 c) Loss of control  
 d) Habitual behavior
33. Denial is person's  
 a) Experience of a blackout episode or memory loss.  
 b) Inability to perceive that a behavior is self – destructive  
 c) Failure to stop an addictive behavior  
 d) Change in usual pattern of drinking or drug use
34. Temporary physical and psychological symptoms that occur when use of an addictive substance is discontinued is  
 a) Relapse  
 b) Compulsion  
 c) Withdrawal  
 d) Addiction
35. Chemicals that relay messages (impulses) from one nerve cell to another or to other cells are \_\_\_\_\_  
 a) Enzymes  
 b) Neuro transmitters  
 c) Synapses  
 d) Chemoreceptors
36. What is the definitions of overweight?  
 a)  $BMI > 25 \text{ kg/m}^2$   
 b)  $BMI = 25 \text{ kg/m}^2$   
 c)  $BMI 25 - 29.9 \text{ kg/m}^2$   
 d)  $BMI < 25 \text{ kg/m}^2$
37. Communication is a part of \_\_\_\_\_ skills.  
 a) Soft  
 b) Hard  
 c) Short  
 d) Rough
38. Which of these factors is not required for communication growth?  
 a) Globalisation  
 b) Negative Atmosphere  
 c) Growth size of organizations  
 d) Public relations
39. Body language plays an important role in  
 a) Communication  
 b) Judgment  
 c) Both (a) & (b)  
 d) None of these
40. This causes tunnel vision.  
 a) Smoking  
 b) Alcohol  
 c) Barbiturates  
 d) Vitamins A
41. Alcohol based hand rub is the preferred method of hand hygiene.  
 a) False  
 b) True  
 c) Not sure  
 d) None of these
42. Is addiction a  
 a) Mental disorder  
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43. Important roles of life are  
 a) Feeling happy  
 b) Enjoy life  
 c) Fighting diseases  
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44. Signs of mental illness are  
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45. People suffering from mental diseases in India.  
a) 1 – 1.5 millions    b) 6 – 7 millions    c) 10 – 15 millions    d) 60 – 70 millions
46. Social health hazards includes.  
a) Stigma    b) Anti – social behaviour  
c) Higher crime records    d) All of these
47. Hyper obesity value in terms of BMI.  
a) > 25    b) 40    c) > 40    d) < 40
48. Goals of communication.  
a) To inform , to persuade    b) To inform, fear of offending  
c) To persuade, fear of offending    d) None of these
49. In which year WHO articulated the right to health in its constitution?  
a) 2000    b) 1946    c) 1952    d) 1987
50. Spiritual health refers  
a) Body composition    b) Mediation    c) Exercising    d) All of these

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**BSFHK158/258**

[illegible]

**Question Paper Version : C**

## Scientific Foundations of Health

Time: 1 hr.]

[Max. Marks: 50]

## INSTRUCTIONS TO THE CANDIDATES

- [illegible]

Ver - C - 1 of 5

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  - d) All of these
11. Wellness dimensions are
  - a) 2
  - b) 4
  - c) 6
  - d) 8
12. What are the reasons for taking drug?
  - a) To feel good
  - b) To do better
  - c) To feel better
  - d) All of these
13. Planning refers to
  - a) Communities in which they live in
  - b) Health services
  - c) Financial stability
  - d) None of these
14. What is the goal of social engineering?
  - a) Sabotage a person's social media
  - b) To build trust
  - c) To gain vital personal information
  - d) To catfish someone.
15. After drinking Alcohol, consumption of this leads to death.
  - a) Morphine
  - b) Opium
  - c) Onion
  - d) None of these
16. How is substance use disorder treated?
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# CBGS SCHEME

BSFHK158/258

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Question Paper Version : D

**First/Second Semester B.E./B.Tech Degree Examination,**

**Dec.2024/Jan.2025**

**Scientific Foundations of Health**

Time: 1 hr.]

[Max. Marks: 50

## INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
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5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

- 
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Ver – D – 1 of 5

7. Basic Instincts of human life
  - a) Self preservance    b) Social    c) Sexual    d) All of these
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**Question Paper Version : A**

# Professional Writing Skills in English

[Max. Marks: 100

1. Answer all the **hundred** questions, each question carries **ONE mark**.
2. Use only **Black ball point pen** for writing / darkening the circles.
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1. Either my mother or my father \_\_\_\_\_ coming to the meeting.  
a) is                                      b) are                                      c) was                                      d) were
2. Everyone of those books \_\_\_\_\_ friction.  
a) are                                      b) is                                      c) like                                      d) do
3. The leader as well as his brothers \_\_\_\_\_ to the tribe.  
a) belonging                              b) belong                                      c) belonged                                      d) belongs
4. The students accompanied by the teacher \_\_\_\_\_ gone on a picnic.  
a) had                                      b) has                                      c) were                                      d) have
5. A large sum of money \_\_\_\_\_ stolen.  
a) was                                      b) were                                      c) do                                      d) did

**6.** Mr. Banks and Mr. Cukler are selling \_\_\_\_\_ stock in the construction company.  
a) his                                  b) theirs                                  c) her                                  d) their

**7.** Jane Roberts is my friend and mentor; \_\_\_\_\_ helps me at all times.  
a) she's                                  b) her                                  c) she                                  d) her's

**8.** A person needs to see \_\_\_\_\_ dentist twice a year.  
a) his                                  b) his/her                                  c) her                                  d) their



9. Both of the boys inherited \_\_\_\_\_ mother's red hair.  
a) their                      b) them                      c) his                      d) theirs
10. The Washington team was opportunistic, \_\_\_\_\_ took advantage of every break.  
a) it                      b) they                      c) them                      d) those

**Fill in the blanks with suitable tenses:**

11. Suddenly she gave a loud scream and \_\_\_\_\_ to the ground.  
a) had fallen                      b) has fallen                      c) fall                      d) fell
12. After questioning he \_\_\_\_\_ to go home.  
a) allowed                      b) was allowed                      c) had allowed                      d) allowing
13. Although they \_\_\_\_\_ defeated, they did not lose heart.  
a) are                      b) has been                      c) were                      d) was
14. The teacher asked the boys whether they \_\_\_\_\_ the problems.  
a) solved                      b) has solved                      c) solving                      d) had solved
15. The room \_\_\_\_\_ but the police failed to find anything suspicious.  
a) searched                      b) was searched                      c) has searched                      d) searching

**Fill in the blanks with suitable auxiliaries:**

16. You must have been riding continuously, you \_\_\_\_\_ be tired.  
a) can                      b) ought                      c) were                      d) must
17. That \_\_\_\_\_ be true. He wouldn't do something like that.  
a) wouldn't                      b) can't                      c) shouldn't                      d) mustn't
18. \_\_\_\_\_ you mind standing up for a moment?  
a) should                      b) could                      c) would                      d) can
19. I will go to Chicago after, I \_\_\_\_\_ finished my work here.  
a) have                      b) has                      c) had                      d) having
20. \_\_\_\_\_ you at Kashmir last week.  
a) was                      b) were                      c) had                      d) has

**Identify the part of the sentence that has an error:**

21. Suman could not went (A) to picnic, because (B) his mother was sick (C) no error (D)  
a) Suman could not went (A)                      b) to picnic, because (B)  
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22. I couldn't find my tennis racket (A) so I asked Mani (B) to use that (C) no error (D)  
a) I couldn't find my tennis racket (A)                      b) So I asked Mani (B)  
c) to use that (C)                      d) no error (D)

23. We discussed about the problem so thoroughly (A) on the eve of the examination (B) that I found it very easy to work it out (C) no error (D)  
 a) We discussed about the problem so thoroughly (A)  
 b) on the eve of the examination (B)  
 c) that I found it very easy to work it out (C)  
 d) no error (D)
24. If I had known (A) this yesterday (B) I will have helped him (C) no error (D)  
 a) If I had known (A) b) this yesterday (B)  
 c) I will have helped him (C) d) no error (D)
25. Having received your letter (A) this morning, we are writing (B) to thank you for the same (C) no error (D)  
 a) Having received your letter (A) b) this morning, we are writing (B)  
 c) to thank you for the same (C) d) no error (D)

**Fill in the blanks with suitable phrasal verbs:**

26. The terrorist might now try to \_\_\_\_\_ historical monuments.  
 a) blow off b) blow out c) blow over d) blow up
27. His arrogance \_\_\_\_\_ his ruin.  
 a) brought in b) brought up c) brought about d) brought off
28. The publishers are planning to \_\_\_\_\_ a cheap edition of the book.  
 a) bring in b) bring out c) bring like d) none of these
29. Henry \_\_\_\_\_ the magazine quickly.  
 a) looked through b) looked up c) looked in d) looked down
30. \_\_\_\_\_ the doctor immediately.  
 a) call on b) call up c) call at d) call in

**Choose the best option:**

31. Okay, see you \_\_\_\_\_ the concert.  
 a) at b) in c) for d) to
32. The tougher the situation, the greater the need for you to prove your \_\_\_\_\_.  
 a) metal b) mettle c) melt d) on metal
33. The medicines that the doctor has \_\_\_\_\_ are not available.  
 a) prescribed b) proscribed c) prescription d) proposed
34. 'Milton's Paradise Lost' is full of literary \_\_\_\_\_.  
 a) illusions b) hallucinations c) allusions d) pollution
35. A refreshing \_\_\_\_\_ of breeze soothed my tense nerves.  
 a) drought b) flowing c) amount d) draught

- Choose a suitable punctuation mark to complete the sentence:**

- 4 of 9

**Do as directed:**

46. A sentence that introduces the topic or the main idea to the readers is \_\_\_\_\_.  
a) Topic sentence      b) Main sentence      c) Power sentence      d) First sentence
47. A paragraph which is written after analyzing a situation is called \_\_\_\_\_.  
a) Descriptive paragraph      b) Analytical paragraph  
c) Illustrative paragraph      d) Narrative paragraph
48. An essay can be divided into \_\_\_\_\_ distinctive parts.  
a) 2      b) 3      c) 4      d) 5
49. Reproducing the author's ideas in one's own words is called:  
a) Summarising      b) Paraphrasing      c) Essay writing      d) None of these
50. A concluding paragraph should always introduce new points.  
a) True      b) False
51. Which among the following should not be followed while writing a summary?  
a) Identifying a title      b) Gathering information  
c) Identifying the main points      d) Lack of editing
52. Identify the characteristic feature of a business report:  
a) It is used for general purposes      b) Any employee can access it  
c) It is not formal      d) It has a factual account and is reliable
53. Technical reports that are oral in nature are  
a) permanent      b) formal      c) ephemeral      d) written
54. A report which is written on a timely basis is \_\_\_\_\_.  
a) Factual report      b) Informative report      c) Business report      d) Routine report
55. This report provides only facts and findings of a problem or situation.  
a) Laboratory report      b) Information report  
c) Analysis report      d) Confidential report
56. \_\_\_\_\_ is a reading process that helps to identify a required piece of information.  
a) scanning      b) skimming      c) intensive      d) extensive
57. \_\_\_\_\_ is a reading technique where the reader pays attention to each and every word for its meaning.  
a) skimming      b) scanning      c) intensive      d) extensive
58. This process of reading helps to connect with the background of the central idea  
a) Pre-reading      b) while reading      c) during reading      d) quick reading
59. The prisoner was hanged for \_\_\_\_\_.  
a) doing murder      b) killing murder  
c) accused murder      d) committing murder

60. He has been jobless for several months, and it is his wife who keeps the pot burning.  
 a) keeps the fire burning  
 b) avoids starvation  
 c) keeps firing  
 d) gets angry

**Convert the following sentence from active to passive voice:**

61. Who is creating this mess?  
 a) Who has been created this mess?  
 b) By whom was this mess been created?  
 c) By whom is that mess created?  
 d) By whom is this mess being created?
62. You need to clean your shoes properly.  
 a) Your shoes are needed to clean properly.  
 b) You are needed to clean your shoes properly  
 c) Your shoes need to be cleaned properly.  
 d) Cleaned properly your shoes
63. He is said to be very rich.  
 a) He said he is very rich.  
 b) People say he is very rich  
 c) He said it is very rich  
 d) People say it is very rich
64. James Watt discovered the energy of steam.  
 a) The energy of steam discovered James Watt.  
 b) The energy of steam was discovered by James Watt.  
 c) James Watt was discovered by the energy of steam  
 d) James Watt have been discovered the energy of steam
65. I cannot accept your offer.  
 a) Your offer cannot be accepted by me.  
 b) I cannot be accepted by your offer.  
 c) The offer can be accepted by me.  
 d) Your offer must be accepted.

**Convert the sentence from direct to indirect speech:**

66. He said to his father, "Please increase my pocket money."  
 a) He requested his father to increase his pocket money.  
 b) He pleaded his father for giving pocket money.  
 c) Both a and b  
 d) Only b
67. She said to him, "why don't you go today?"  
 a) She asked him not to go that day.  
 b) She asked him why he did not go that day.  
 c) Both a and b  
 d) None of these
68. "Please don't go away", he said.  
 a) He said to please him and go away  
 b) He begged me not to go away  
 c) Both a and b  
 d) None of these
69. "I am sorry", he said  
 a) He apologized that he was sorry.  
 b) He cried that he was sorry.  
 c) Both a and b  
 d) None of these

70. "I am feeling hungry", the little boy said to his mother.  
 a) The little boy said to his mother that he was hungry.  
 b) The little boy told his mother that he will be feeling hungry  
 c) Both a and b  
 d) None of these

**Do as directed:**

71. Childhood is a time when there are \_\_\_\_\_ responsibilities to make life difficult. If a child \_\_\_\_\_ good parents, he is fed, looked \_\_\_\_\_ and loved.  
 a) many, had, up      b) few, has, after      c) little, have, at      d) none of these
72. Life is always \_\_\_\_\_ new things to the child. A child finds \_\_\_\_\_ in playing in the rain or in the snow. His first visit \_\_\_\_\_ the seaside is a marvelous adventure.  
 a) donating, sorrow, on      b) presenting, happiness, to  
 c) displaying, pain, in      d) none of these
73. A child has his pains; he is not free to do as he wishes; he is continually being \_\_\_\_\_ not to do things or is being \_\_\_\_\_. His life is therefore not perfectly happy.  
 a) restricted, punished      b) forbidden, penalized  
 c) both a and b      d) none of these
74. \_\_\_\_\_ fights against distractions and knows how to concentrate.  
 a) Effective listener      b) Poor listener  
 c) Active listener      d) Passive listener
75. Listening as a process involves:  
 a) Listener      b) Message      c) Environment      d) All of these
76. Which among the following is a barrier to listening?  
 a) Physical      b) Emotional      c) Psychological      d) All of these
77. An active reader reads content with critical evaluation and questions in mind.  
 a) True      b) False
78. The date on a business letter should appear after the salutation.  
 a) True      b) False
79. In order to have the desired effect on the recipient, how should a formal letter be?  
 a) In the proper format      b) Grammatically correct  
 c) To the point and relevant      d) all of these
80. This format of the letter has the heading, complementary closure and signature right aligned.  
 a) Block format      b) Semi-block format  
 c) Informal format      d) None of these
81. Which among the following is not to be mentioned in a resume?  
 a) Educational qualification      b) Strengths  
 c) Work experience      d) Weakness

82. A resume is usually longer than a bio-data.  
a) True b) False
83. Which among the following should not be included in a cover letter?  
a) The position for which you are applying  
b) Skills, qualifications and experience that are relevant to the position  
c) Details of problems you have had with employers in the past  
d) Your interest to work with the organization
84. \_\_\_\_\_ format of resume lists your work history, your recent employer and job title listed first.  
a) Historical b) Functional c) Chronological d) Combination
85. BCC in an email refers to  
a) British Council b) Blind Carbon Copy  
c) Brand Carbon Copy d) Booked Carbon Copy
86. This document is a brief written message circulated within an organization for quick and easy communication.  
a) memo b) profile c) proposal d) CV
87. A blog is an online journal where individuals or groups present a record of activities or thoughts.  
a) True b) False
88. A person who writes blogs is called  
a) Blogger b) Blogging c) Blogman d) None of these
89. \_\_\_\_\_ communication is a direct, written or oral communication that occurs between two or more persons.  
a) Interpersonal b) Intrapersonal c) a and b d) All of these
90. Interpersonal communication promotes good decision making skills.  
a) True b) False
91. Which among the following must not be followed while communicating within a group?  
a) Being arrogant b) No eye contact c) Lack of gestures d) All of these
92. In a group one must communicate with \_\_\_\_\_.  
a) Hostility b) Ignorance c) Long sentences d) Knowledge
93. Which among the following should not be followed while appearing for an interview?  
a) Arriving late for the interview b) Knowing your resume  
c) Being formally dressed d) Knowledge of the company
94. Which among the following should not be followed in an interview?  
a) Lie b) Use slang  
c) Use profanity d) All of these

95. When giving a presentation in front of an audience you should do all of the following except:
- a) Speak loud and clear
  - b) Provide handouts if needed
  - c) Dress professionally
  - d) Do not look at the audience
96. Information in your presentation can be vague.
- a) True
  - b) False
97. While presenting, it is important to articulate and use a loud, clear voice.
- a) True
  - b) False
98. A group discussion checks and monitors.
- a) Leadership skills
  - b) Listening ability
  - c) Confidence
  - d) All of these
99. Which among the following should not be followed in a group discussion?
- a) Being productive
  - b) Listening to others
  - c) Being hostile
  - d) Not being arrogant
100. Communication helps management to make accurate decisions and influence organizational performance positively.
- a) True
  - b) False



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## Second Semester B.Arch. Degree Examination, Dec.2024/Jan.2025 Building Structures – I

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

- 1 a. What is Concrete? Explain the properties of fresh and hardened concrete. (10 Marks)
- b. What is workability of concrete? Explain the factors affecting the workability of concrete. (10 Marks)

**OR**

- 2 a. Explain the important properties and uses of the following building materials :  
i) Concrete ii) Steel iii) Wood. (12 Marks)
- b. Explain the different types of loads the structure is being subjected to as per IS 875 – 1987 (Part I and II). (08 Marks)

### Module-2

- 3 a. Differentiate between :  
i) Coplanar and non-coplanar force system (02 Marks)  
ii) Coplanar concurrent and coplanar parallel force system (04 Marks)  
iii) Law of triangle of forces and law of polygon of forces. (04 Marks)
- b. Determine the magnitude and direction of the resultant force for the force system shown in Fig.Q3(b).

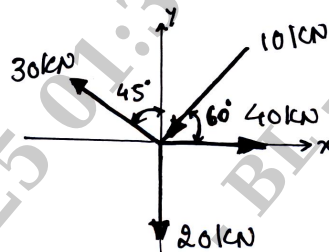


Fig.Q3(b)

(10 Marks)

**OR**

- 4 a. Explain the principle of transmissibility of forces and moment of a force with an example. (10 Marks)
- b. Determine the resultant of the 3 forces acting on a hook as shown in Fig.Q4(b). Also find the direction of the resultant force.

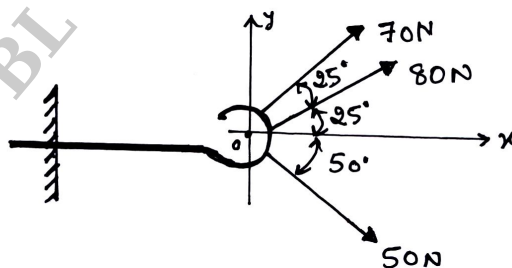


Fig.Q4(b)

(10 Marks)

**Module-3**

- 5 a. Define couple. What are the characteristics of a couple? (05 Marks)  
 b. State and prove "Varignon's Theorem". (05 Marks)  
 c. Determine the magnitude, direction and position of the resultant force from point 'A'. Refer Fig.Q5(c).

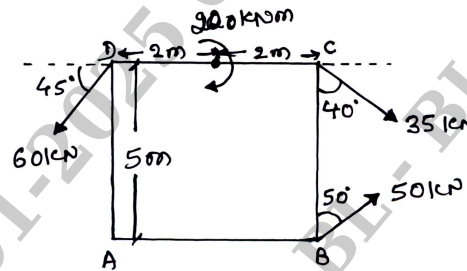


Fig.Q5(c)

(10 Marks)

**OR**

- 6 a. With neat sketches, explain the different types of supports and loads. (10 Marks)  
 b. Determine the support reactions for the beam shown in Fig.Q6(b).

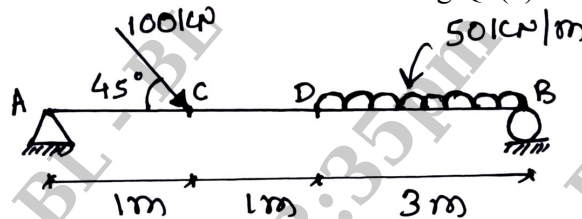


Fig.Q6(b)

(10 Marks)

**Module-4**

- 7 a. Locate the Centroid of composite section shown in Fig.Q7(a).

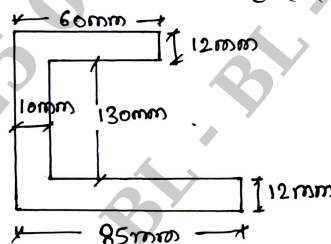


Fig.Q7(a)

(10 Marks)

- b. Locate the Centroid of the shaded portion shown in Fig.Q7(b).

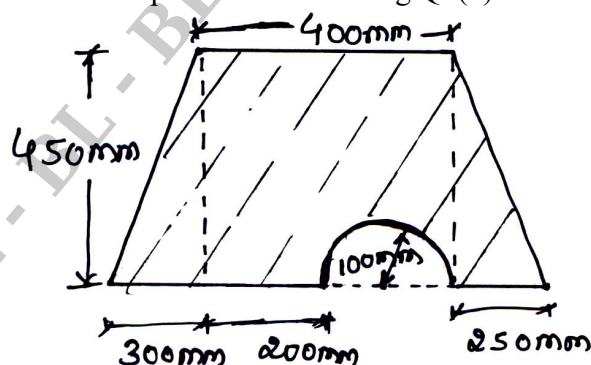


Fig.Q7(b)

(10 Marks)

OR

- 8 a. State and prove "Parallel axis theorem". (06 Marks)  
 b. For the composite section shown in Fig.Q8(b), determine the moment of inertia about its horizontal and vertical centroidal axis. Also find the corresponding radius of gyration.

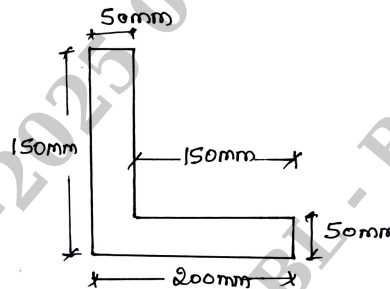


Fig.Q8(b)

(14 Marks)

**Module-5**

- 9 a. With a neat sketch explain :  
 i) Perfect frame  
 ii) Deficient frame  
 iii) Redundant frame.  
 b. Mention the assumptions used in the analysis of truss.  
 c. Determine the support reactions for the truss shown in Fig.Q9(c).

(09 Marks)

(05 Marks)

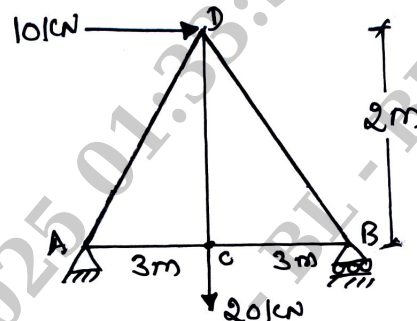


Fig.Q9(c)

(06 Marks)

OR

- 10 Analyze the frame shown in Fig.Q10 by the method of joints. Length of each member is 2m.

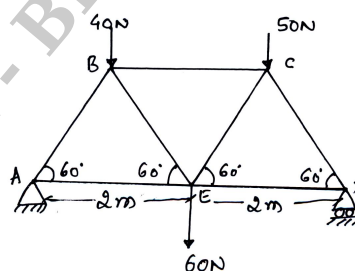


Fig.Q10

(20 Marks)

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3 of 3

# CBCS SCHEME

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BESCK204A

**Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025**

## Introduction of Civil Engineering

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.*

*2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain the importance of the following branches of civil engineering i) Structural engineering ii) Geotechnical engineering.	10	L2	CO1
	b.	Write a short note on the following : i) Reinforced concrete ii) Pre-stressed concrete iii) Foundation iv) Lintel v) Slab.	10	L2	CO1
OR					
Q.2	a.	Explain the scope of the following : i) Surveying ii) Hydraulic of water resources	10	L2	CO1
	b.	Write brief note following : i) Bricks ii) Plain concrete iii) mortar iv) Plinth v) Column.	10	L3	CO1
Module – 2					
Q.3	a.	Briefly explain the following : i) Smart city concept ii) Energy efficient building.	10	L2	CO2
	b.	List and explain sustainable development goals.	10	L2	CO2
OR					
Q.4	a.	Elaborate on : i) Clean city ii) Identification of land fill sites.	10	L2	CO2
	b.	Write a short notes on : i) Water supply system ii) Smart Building.	10	L2	CO2
Module – 3					
Q.5	a.	Explain the concept of idealization.	6	L2	CO3
	b.	State and prove Verignon's theorem.	6	L3	CO3
	c.	Determine the magnitude, direction and position of resultant with respect to point 'D' as shown in Fig Q5(c).	8	L3	CO3

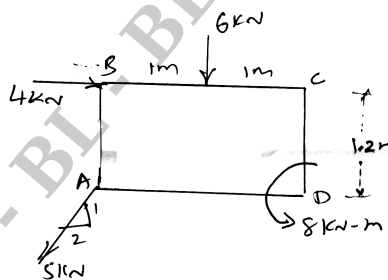
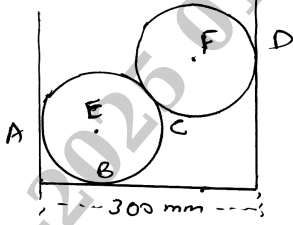
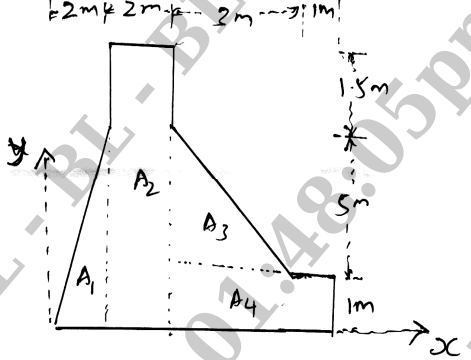
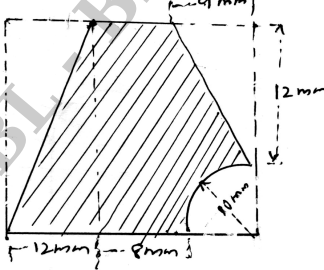
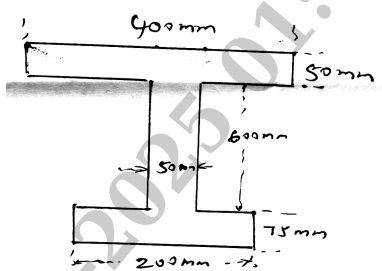
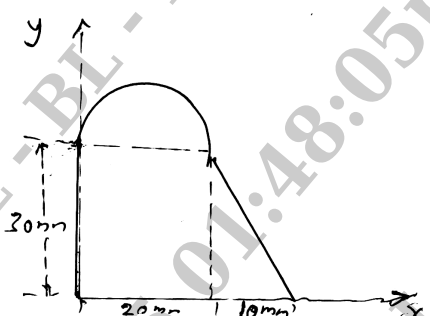


Fig Q5(c)

OR					
Q.6	a.	Explain the principle transmissibility of forces.	4	L2	CO3
	b.	Classify the system of forces.	8	L2	CO3
	c.	Two spheres each of radius 100 mm and weight 5kN is in a rectangular box as shown in figure. Calculate the reaction at all points of contacts of shown in Fig Q6(c).	8	L3	CO3
 <p>Fig Q6(c)</p>					
Module – 4					
Q.7	a.	Define : i) Centroid ii) Centre and gravity.	4	L1	CO4
	b.	Determine centroid of a triangle from first principles.	8	L3	CO4
	c.	Determine the centroid of the section shown in Fig Q7(c).	8	L3	CO4
 <p>Fig Q7(c)</p>					
OR					
Q.8	a.	Define : i) Axis of reference ii) Axis of symmetry.	4	L1	CO4
	b.	Determine centroid of quarter of a circle from first principles.	8	L3	CO4
	c.	Determine centroid of the section shown in Fig Q8(c)	8	L3	CO4
 <p>Fig Q8(c)</p>					

Module – 5					
Q.9	a.	Define : i) Moment of inertia ii) Section modulus.	4	L1	CO5
	b.	Determine moment of inertia of triangle about its base from first principle.	8	L3	CO5
	c.	Find the moment of inertia algorithm horizontal axis passing through the centroid of the section shown in Fig Q9(c)	8	L3	CO5
 <p>Fig Q9(c)</p>					
OR					
Q.10	a.	State parallel axis and perpendicular axis theorem.	4	L1	CO5
	b.	Determine moment of inertia of a semi circle about its base from first principle.	8	L3	CO5
	c.	Find the moment of inertia about the horizontal axis for the figure shown in Fig Q10(c).	8	L3	CO5
 <p>Fig Q10(c)</p>					

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BESCK204B				
	b.	Establish the relation between voltage and current in ac circuit containing RL in series. Draw the vector diagram.	8	L3 CO2
	c.	List the advantages and limitations of 3 $\phi$ AC over 1 $\phi$ AC.	6	L2 CO2
OR				
Q.4	a.	Draw the circuit diagram for three phase star and delta connection. Write the relation between line and phase voltage and currents.	6	L2 CO2
	b.	Define the terms active power, reactive power and apparent power.	6	L1 CO2
	c.	A series circuit with $R = 10\Omega$ , $L = 50\text{ mH}$ and $C = 100\text{ }\mu\text{F}$ is provided with 200 V, 50 Hz supply. Find: i) Impedance ii) Current iii) Power iv) Power factor.	8	L3 CO2
Module – 3				
Q.5	a.	With a neat sketch, explain the principle and operation of a DC generator.	8	L2 CO3
	b.	Derive the EMF equation of DC generator.	6	L3 CO3
	c.	Calculate the emf generated by a 6 pole DC generator having 480 conductors and driven at a speed of 1200 rpm. The flux/pole is 0.012 wb. Assume the generator to be i) Lap wound ii) Wave wound.	6	L3 CO3
OR				
Q.6	a.	Define back emf and explain its significance.	6	L2 CO3
	b.	Derive expression for torque developed in a DC motor.	6	L2 CO3
	c.	Explain speed control of DC motor by i) Armature voltage control method ii) Flux control method.	8	L2 CO3
Module – 4				
Q.7	a.	Derive EMF equation of 1 $\phi$ transformer.	6	L3 CO4
	b.	List the various losses occurring in a transformer, explain how copper loss varies with load.	8	L2 CO4
	c.	500 KVA, 1 $\phi$ transformer has $R_1 = 0.4\text{ }\Omega$ , $R_2 = 0.001\text{ }\Omega$ , $V_1 = 6600\text{ V}$ , $V_2 = 400\text{ V}$ , Iron loss = 3 kW, full load copper loss = 3.858 kW. Determine: i) Efficiency at full load, 0.8 pf lagging.	6	L3 CO4
OR				
Q.8	a.	With a neat sketch, explain how rotating magnetic field is produced in a 3 $\phi$ induction motor.	8	L2 CO4
	b.	With a neat sketch, explain squirrel cage and wound rotor of a 3 $\phi$ induction motor.	6	L2 CO4
2 of 3				



BESCK204B					
	c.	Define slip explain its significance.	6	L2	CO4
<b>Module – 5</b>					
<b>Q.9</b>	a.	With neat circuit and switching table explain the 2 way and 3 way control of lamp.	8	L2	CO5
	b.	With a neat diagram, explain the working of fuse.	6	L2	CO5
	c.	What is earthing? With a neat diagram explain the pipe earthing.	6	L2	CO5
<b>OR</b>					
<b>Q.10</b>	a.	Define tariff, explain 2 part tariff with its advantages and disadvantages.	8	L2	CO5
	b.	What is electric shock? Give the preventive measures against the shock.	6	L2	CO5
	c.	List the power rating of house hold appliances including air conditioners PC's, Laptops, printers, LED bulbs etc. Find the total load installed in a house.	6	L2	CO5

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BESCK204C

## Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Introduction to Electronics and Communication

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	With neat block diagram, explain the working of a DC power supply also mention the principal components used in each block.	10	L1	CO2
	b.	With neat circuit diagram and waveform, explain the working operation of a Bi-phase rectifier circuit.	10	L1	CO2
<b>OR</b>					
Q.2	a.	Define feedback. What are the different types of feedback available, what are the advantages of negative feedback used in amplifier? Derive the overall gain for negative feed back.	10	L2	CO3
	b.	Define amplifier, what are the different types of amplifier used in real time.	10	L1	CO2
<b>Module – 2</b>					
Q.3	a.	What is an oscillator and what are the conditions to be satisfied for a device to work as an oscillator.	10	L1	CO2
	b.	With neat diagram and waveform explain the working of RC phase shift oscillator.	10	L1	CO3
<b>OR</b>					
Q.4	a.	Explain the concept of openloop voltage gain input and output resistance, input offset voltage and slew rate of op-amp with relevant diagram.	10	L1	CO2
	b.	What is a operation amplifier? What are the op-amp characteristics in real time?	10	L1	CO2
<b>Module – 3</b>					
Q.5	a.	Design the AND, OR, NOT gate with the help of truth table.	8	L1	CO2
	b.	Using 10 complement subtract 72532-3250.	4	L1	CO1
	c.	Given two binary number $X = 1010100$ and $Y = 1000011$ perform the subtraction i) $X-Y$ ii) $Y-Y$ using 2's complement.	8	L2	CO2

BESCK204C					
OR					
Q.6	a.	Express the Boolean $F = A + B'C$ in a sum of minterms and $G = xy + x'z$ in a product of maxterms.	10	L2	CO2
	b.	Design a half adder by constructing the truth table and simplify the output equations.	10	L1	CO2
Module – 4					
Q.7	a.	i) Write any 5 differences between RISC and CISC processor. ii) Write any 5 differences between Microprocessor and Microcontroller.	10	L2	CO3
	b.	Write the differences between embedded system vs general computing system.	10	L2	CO2
OR					
Q.8	a.	With neat diagram, explain the major elements of embedded system.	10	L1	CO2
	b.	Define embedded system and explain the classification of embedded system.	10	L1	CO2
Module – 5					
Q.9	a.	With neat diagram, explain the basic blocks used in communication system.	10	L1	CO2
	b.	What are the advantages and disadvantages of digital communication over analog communication?	10	L1	CO2
OR					
Q.10	a.	Explain the types of communication system available with neat diagram.	10	L1	CO2
	b.	Explain the need for modulation and explain briefly the types of modulation techniques used for communication.	10	L1	CO1

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BESCK204D

## Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Introduction to Mechanical Engineering

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain the role of Mechanical engineering in Industries and society.	8	L2	CO1
	b.	With a neat sketch, explain the working of hydel power plant.	8	L2	CO1
	c.	Write a note on Biofuels.	4	L1	CO1
OR					
Q.2	a.	With a neat sketch, explain the working of wind mill or wind power plant along with its advantages and disadvantages.	8	L2	CO1
	b.	Explain the working of solar flat plate collector with neat sketch.	8	L2	CO1
	c.	Write short note on Global warming and Ozone depletion.	4	L1	CO1
Module – 2					
Q.3	a.	Explain the following machine tool operations with sketch : i) Turning      ii) Boring      iii) Slot milling.	12	L2	CO2
	b.	Explain 3D printing process with its advantages and disadvantages.	8	L2	CO2
OR					
Q.4	a.	Explain the components of CNC with block diagram along with its application and advantages.	12	L2	CO2
	b.	Explain the working principles of lathe machine and milling machine.	8	L2	CO2
Module – 3					
Q.5	a.	Explain the working of 4 – stroke petrol engine with P – V diagram.	10	L2	CO3
	b.	Describe the components of I.C. Engine with a neat sketch.	10	L2	CO3
OR					
Q.6	a.	Explain the components and working principle of following vehicles : i) Electric vehicles      ii) Hybrid vehicles.	12	L2	CO3
	b.	What are the advantages and disadvantages of Electric vehicles and Hybrid vehicles?	8	L1	CO3

Module – 4					
Q.7	a.	Explain three types of ferrous and three types of non – ferrous metals.	12	L2	CO4
	b.	Write a note on the following materials : i) Ceramics                  ii) Glass.	8	L1	CO4
OR					
Q.8	a.	Explain the working principle of Arc welding with a neat sketch.	8	L2	CO4
	b.	Explain soldering and brazing process.	6	L2	CO4
	c.	Explain the three types of flames used in gas welding.	6	L2	CO4
Module – 5					
Q.9	a.	Explain open loop and closed loop mechatronic system.	8	L2	CO5
	b.	Explain the four types of robotic configurations with 2D sketch.	12	L2	CO5
OR					
Q.10	a.	Describe the three types of Automation system.	6	L2	CO5
	b.	What are the basic elements in an Automated system? Show that in a block diagram.	4	L1	CO5
	c.	Explain the characteristics and physical design of IoT.	10	L2	CO5

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# CBCS SCHEME

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BESCK204E

**Second Semester B.E/B.Tech. Degree Examination, Dec.2024/Jan.2025**

## Introduction to C Programming

Time: 3 hrs.

Max. Marks:100

**Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
1	a.	With a neat diagram, explain the basic organization of a computer.	6	L2	CO1
	b.	Explain the different characteristic features of stored program concept.	6	L2	CO1
	c.	Explain the basic structure of a C program.	8	L2	CO1
<b>OR</b>					
2	a.	Explain the classification of computers.	8	L2	CO1
	b.	What is an identifier? What are the rules to be followed to form an identifier?	6	L2	CO2
	c.	Draw the flow chart to calculate the sum of first ten natural numbers.	6	L3	CO2
Module – 2					
3	a.	Explain the different bitwise operators in C with an example for each.	8	L2	CO2
	b.	Write a program to find whether the given number is odd or even.	5	L3	CO2
	c.	Explain the switch statement with syntax and example.	7	L2	CO2
<b>OR</b>					
4	a.	Differentiate between while and do-while loops.	6	L2	CO2
	b.	Write program to check whether the given number is palindrome or not.	8	L3	CO2
	c.	Write a program to generate and print the first 'n' Fibonacci numbers.	6	L3	CO2
Module – 3					
5	a.	What is a function? Why are functions needed?	6	L2	CO5
	b.	Explain the different methods of passing parameters to functions giving an example for each.	8	L3	CO5
	c.	Write a program to find the factorial of a number using recursion.	6	L3	CO5
1 of 2					

OR

6	a.	Discuss the different operations that can be performed on arrays.	10	L2	CO3
	b.	Write a program to sort the given 'n' elements in ascending order using bubble sort.	10	L3	CO3

## Module – 4

7	a.	Explain the declaration and initialization of two-dimensional array with an example for each.	8	L2	CO3
	b.	Write a program to multiply two matrices.	12	L3	CO3

OR

8	a.	Explain the different functions used to read and write strings with an example for each.	12	L3	CO3
	b.	Write a program to find the length of a string without using library functions.	8	L3	CO3

## Module – 5

9	a.	Explain the following string manipulation functions with an example : i) strcat() ii) strcmp() iii) strstr() iv) strcpy().	10	L3	CO3
	b.	Define pointer. Explain with example the pointer declaration and initialization.	5	L2	CO4
	c.	Write a program to swap two numbers using pointer.	5	L3	CO4

OR

10	a.	Write a program to read and display the details of 'n' students using structure. The details include roll no, name, branch and marks.	10	L3	CO4
	b.	Write a program using pointers to compute the sum mean and standard deviation of all elements stored in an array of 'n' real numbers.	10	L3	CO4

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## Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025

### Green Buildings

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain stabilized mud block and list stabilizers used in mud construction.	10	L2	CO1
	b.	Explain any two types of cost effective construction material with their advantages.	10	L2	CO1
OR					
Q.2	a.	Explain the need for reuse and recycle of building materials along with its benefits.	10	L2	CO1
	b.	Explain the various environmental issues due to quarrying of building materials.	10	L2	CO1
Module – 2					
Q.3	a.	Explain features of cavity wall.	10	L2	CO2
	b.	Explain Rat-trap bond with its advantages and disadvantages.	10	L2	CO2
OR					
Q.4	a.	Explain the ferrocement construction process and list the different ferrocement products.	10	L2	CO2
	b.	Briefly explain the contribution of Nirmiti Kendra for cost effective technology development.	10	L2	CO2
Module – 3					
Q.5	a.	Write a note on causes and effects of global warming.	10	L2	CO3
	b.	Explain the environmental benefits of green buildings.	10	L2	CO3
OR					
Q.6	a.	Explain the various means of reducing carbon emissions.	10	L2	CO3
	b.	Differentiate between conventional building and green building.	10	L2	CO3
Module – 4					
Q.7	a.	Explain the features and benefits of GRIHA.	10	L2	CO4
	b.	Briefly explain the BREEAM assessment category.	10	L2	CO4
OR					
Q.8	a.	Write a note on different characteristics of sustainable buildings.	10	L2	CO4
	b.	Write a note on objectives of green building design.	10	L2	CO4
Module – 5					
Q.9	a.	Explain the concept of solar passive heating in buildings.	10	L2	CO5
	b.	Explain the advantages and disadvantages of solar powered building concepts.	10	L2	CO5
OR					
Q.10	a.	Describe the process of management of solid waste.	10	L2	CO5
	b.	Explain water utilization in green buildings.	10	L2	CO5



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BETCK205E

## Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Renewable Energy Sources

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1				M	L	C
Q.1	a.	Explain India's production and reserves of commercial energy sources with a pie chart.	6	L2	CO1	
	b.	Write a brief note on tidal energy and ocean thermal energy.	8	L1	CO1	
	c.	Write a brief note on Internet of energy.	6	L1	CO1	
OR						
Q.2	a.	List any five reasons for need for non – conventional energy sources.	5	L1	CO1	
	b.	Discuss how biomass energy and geothermal energy can be utilized effectively.	8	L2	CO1	
	c.	Discuss the principles of renewable energy.	7	L2	CO1	
Module – 2						
Q.3	a.	With a neat graph, explain solar radiation data on one clear sunny day.	6	L2	CO2	
	b.	With a neat sketch, explain the working of pyrometer and sunshine recorder.	8	L2	CO2	
	c.	Explain the advantages and disadvantages of solar photo voltaic system.	6	L2	CO2	
OR						
Q.4	a.	Explain the construction of a flat plate collector with a neat sketch.	7	L2	CO2	
	b.	With neat sketches, explain slope angle, surface azimuth angle and angle of incidence.	8	L2	CO2	
	c.	With a neat sketch, explain the working of pyrheliometer.	5	L2	CO2	
Module – 3						
Q.5	a.	How is wind generated on earth? With a neat sketch, explain the basic construction of a wind turbine.	8	L2	CO3	
	b.	Explain the photosynthesis process.	6	L2	CO3	
	c.	Explain the downdraft gasifier with neat diagram.	6	L2	CO3	
OR						

Q.6	a.	Explain availability of wind energy in India and major problems associated with wind power.	8	L2	CO3
	b.	Explain the working of savonius wind mill with neat diagram.	7	L2	CO3
	c.	With a neat sketch, explain the working of a gobar gas plant.	5	L2	CO3
<b>Module – 4</b>					
Q.7	a.	Discuss the fundamental characteristics of tidal power plant.	6	L2	CO4
	b.	Explain the power generation by open cycle OTEC with neat diagram.	8	L2	CO4
	c.	Discuss the advantages and disadvantages associated with OTEC.	6	L2	CO4
<b>OR</b>					
Q.8	a.	Explain the power generation by Anderson cycle OTEC with neat diagram.	8	L2	CO4
	b.	Discuss the advantages and disadvantages of tidal power plant.	6	L2	CO4
	c.	Discuss the problems associated with OTEC.	6	L2	CO4
<b>Module – 5</b>					
Q.9	a.	Explain hydrogen generation by electrolysis process with neat diagram.	6	L2	CO5
	b.	Discuss the pros and cons of hydrogen usage of fuel.	6	L2	CO5
	c.	Explain the concept of zero energy building with neat diagram.	8	L2	CO5
<b>OR</b>					
Q.10	a.	Discuss the applications of hydrogen energy.	6	L2	CO5
	b.	Explain the power generation by fuel cell with neat diagram.	8	L2	CO5
	c.	Write a brief note on hydrogen energy storage.	6	L1	CO5

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BETCK205H

Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025

**Introduction to Internet of Things (IoT)**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.**2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1				M	L	C
Q.1	a.	Explain different network topologies with their feature, advantages and disadvantages of each topology.		8	L2	CO1
	b.	Explain all the layers of OSI model.		7	L2	CO1
	c.	Explain the evolution of IoT in detail with a diagram.		5	L2	CO1
OR						
Q.2	a.	Explain networked communication between two hosts following the OSI model.		8	L2	CO1
	b.	Explain all physical network topology with a neat diagram.		6	L2	CO1
	c.	Differentiate between: (i) IoT versus M2M. (ii) IoT versus CPS (iii) IoT versus WoT.		6	L2	CO1
Module – 2						
Q.3	a.	Explain different sensing parameter considerations in detail.		6	L2	CO4
	b.	Explain different types of sensing.		6	L2	CO2
	c.	Explain Actuator types.		8	L2	CO2
OR						
Q.4	a.	Explain simple sensing operation with a neat diagram.		5	L2	CO2
	b.	Explain different characteristics of the sensor with sensorial deviations.		5	L2	CO2
	c.	Explain the functional block of a typical sensor node in IoT with a neat diagram.		10	L2	CO2
Module – 3						
Q.5	a.	Differentiate between structured and unstructured data.		5	L2	CO3
	b.	Explain event detection using On-Site processing topology.		5	L2	CO3
	c.	Explain processing offloading paradigm with a neat diagram.		10	L2	CO3

OR					
Q.6	a.	Explain different offloading considerations.	5	L2	CO3
	b.	Explain different parameter to be considered for IoT device design.	7	L2	CO3
	c.	Explain different off-site processing techniques.	8	L2	CO3
Module – 4					
Q.7	a.	Explain the different types of virtualization and advantages of virtualization.	6	L2	CO4
	b.	Explain the types of service model with a neat diagram.	6	L2	CO4
	c.	Explain the components in an openstack with relevant description.	8	L2	CO4
OR					
Q.8	a.	Describe traditional WSN versus sensor cloud.	8	L2	CO4
	b.	Explain different components of agricultural IoT with a neat diagram.	8	L2	CO4
	c.	Give any 4 advantages of IoT in agriculture.	4	L2	CO4
Module – 5					
Q.9	a.	Explain the components of Vehicular IoT with a neat diagram.	6	L2	CO5
	b.	Explain the architecture of Fog-FISVER with a neat diagram.	7	L2	CO5
	c.	Explain the components of healthcare IoT with a neat diagram.	7	L2	CO5
OR					
Q.10	a.	Give the advantages of ML.	6	L2	CO5
	b.	Explain the type of ML.	6	L2	CO5
	c.	Explain layered architecture of Ambulance system with a neat diagram.	8	L2	CO5

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BETCK205I

**Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025**

## Introduction to Cyber Security

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	What is Cyber Crime? Write all the alternative definitions including specific definitions.	10	L1	CO1
	b.	Explain in brief about cyber crime an Indian perspective.	10	L1	CO1
<b>OR</b>					
Q.2	a.	What is Cyber Security? What are cyber criminals and how are they categorized.	10	L1	CO1
	b.	Write a note on pornographic offenses. Explain in steps how Paedophiles operate.	10	L1	CO1
Module – 2					
Q.3	a.	Explain in brief i) Email spoofing ii) Forgery iii) Software privacy iv) Salami attack v) spamming.	10	L2	CO2
	b.	What is Attack Vector? List and explain how they are Launched?	10	L2	CO2
<b>OR</b>					
Q.4	a.	List and explain steps/phases involved in planning Attacks.	10	L1	CO2
	b.	Define Social Engineering. List and explain the classification of social engineering.	10	L2	CO2
Module – 3					
Q.5	a.	Explain proxy server with its purposes and list the difference between proxy server and anonymizer.	10	L2	CO3
	b.	Define virus. Explain the types of virus and list the difference between virus and worms.	10	L2	CO3
<b>OR</b>					
Q.6	a.	Define back door? List the function of backdoors and differentiate between steganography and cryptography.	10	L2	CO3
	b.	Define DOS attack. List DOS attacks, explain any two types of level of DOS attack and differentiate between DOS and DDOS.	10	L2	CO3
Module – 4					
Q.7	a.	What is phishing? Explain the methods involved.	10	L2	CO4
	b.	List the types of ID theft and techniques. Explain types of techniques of ID Identify theft.	10	L2	CO4

OR					
Q.8	a.	List and explain the types of phishing scams.	10	L2	CO4
	b.	Write a note on spear phishing and explain phishing techniques.	10	L2	CO4
Module – 5					
Q.9	a.	What is Computer forensics? Explain the need for computer forensics.	10	L2	CO5
	b.	Explain the historic background of cyber forensics.	10	L2	CO5
OR					
Q.10	a.	Explain the digital forensics life cycle with a neat block diagram.	10	L2	CO5
	b.	List and explain the phases involved in computer forensics.	10	L2	CO5

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## Second Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025

**Introduction to Python Programming**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.**2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Describe the following flow control statements in python programming: (i) if (ii) else (iii) while	8	L1	CO1
	b.	Write a function to calculate factorial of a number.	8	L3	CO1
	c.	Define def statements with parameters.	4	L1	CO1
OR					
Q.2	a.	Explain the syntax and control flow diagrams for break and continue statement.	8	L2	CO1
	b.	Illustrate the dissection of python program.	8	L2	CO1
	c.	Describe the return values and return statements.	4	L1	CO1
Module – 2					
Q.3	a.	Read N numbers from the console and create a list. Develop a program to print, mean, variance and standard deviation with suitable messages.	8	L3	CO2
	b.	Summarize the sequence data types of python programming.	8	L2	CO2
	c.	Compare and contrast dictionaries Vs lists.	4	L2	CO2
OR					
Q.4	a.	Develop a program to print 10 most frequently appearing words in a text file. [Hint : Use dictionary with distinct words and their frequency of occurrences. Sort the dictionary in reverse order of frequency and display dictionary slice of first 10 items].	8	L3	CO2
	b.	Explain the slots of tic – tac – toe board with its corresponding keys using data structures in python programming.	6	L2	CO2
	c.	Paraphrase the working with lists in python programming.	6	L1	CO2
Module – 3					
Q.5	a.	Describe the Python string handling methods with examples : Split ( ), endswith ( ), ljust ( ), center ( ), lstrip ( ).	10	L2	CO3
	b.	Summarize the process of input validation in python programming.	10	L2	CO3

OR					
Q.6	a.	Explain Python string handling methods with examples : join ( ), startswith ( ), rjust ( ), strip ( ),rstrip ( ).	10	L2	CO3
	b.	Demonstrate the process of copying and pasting strings with pyperclip module.	10	L2	CO3
Module – 4					
Q.7	a.	Develop a program to backing up a given folder (Folder in a current working directory) into a zip file by using relevant modules and suitable methods.	10	L3	CO3
	b.	Describe the file reading or writing process in python programming.	10	L2	CO3
OR					
Q.8	a.	Explain the process of compressing files with the zip file module.	10	L2	CO3
	b.	Summarize the organization of files using shutil module.	10	L3	CO3
Module – 5					
Q.9	a.	Explain about class and objects.	10	L2	CO4
	b.	Explain purefunction and modifier.	10	L2	CO4
OR					
Q.10	a.	Illustrate operator overloading and polymorphism in python with an example.	10	L2	CO4
	b.	Explain _init_ and _str_ method with examples.	10	L2	CO4

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