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21ARC14

First Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 History of Architecture – I

Time: 3 hrs.

Max. Marks:100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. All answers should be accompanied with suitable labeled sketches if applicable.*

Module-1

- 1 a. Discuss the Socio – Cultural factors influencing early settlements. (10 Marks)
b. Compare Dolmen and Gallery graves with neat sketches. (10 Marks)

OR

- 2 Describe the development of prehistoric architecture through examples like stone henge and Catal Huyuk. (20 Marks)

Module-2

- 3 a. Explain the significance of Granaries and community wells in Indus Valley civilization planning. (10 Marks)
b. With suitable labeled sketches explain the evolution of the Egyptian pyramid in detail from Mastaba to true pyramid. (10 Marks)

OR

- 4 a. Explain the planning principles of Indus Valley towns. (10 Marks)
b. Describe the construction techniques used in Ziggurats of Mesopotamia. (10 Marks)

Module-3

- 5 a. Define “Pagoda”. Name two typical features of traditional Chinese architecture. (10 Marks)
b. Explain the structural characteristics of Mayan temples. (10 Marks)

OR

- 6 Analyze how cultural and climatic factors shaped Ancient East Asian and American architecture. (20 Marks)

Module-4

- 7 Describe the typology of Vedic village and Vedic house. (20 Marks)

OR

- 8 Discuss the contribution of Persian and Mycenaban civilization to World architecture. (20 Marks)

Module-5

- 9 a. Name two early cultures form the American continent. What is the role of culture in shaping tribal architecture? (10 Marks)
b. Discuss how environment influences settlement planning in mountainous areas. (10 Marks)

OR

- 10 a. Describe the architecture of early American civilizations in desert regions. (10 Marks)
b. Explain the social structure of tribal communities through their built forms. (10 Marks)

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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.

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21ARC24

Second Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 History of Architecture - II

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Describe the design and symbolism of the great Stupa at Sanchi. Illustrate with a neat sketch. (10 Marks)
- b. Discuss the form and significance of Toranas at Sanchi with reference to their sculptural and symbolic aspects. (10 Marks)

OR

- 2 a. Discuss the architectural elements and spatial organization of the Chaitya Hall at Karli. (10 Marks)
- b. Write a note on the Viharas at Ajanta with reference to layout and functional planning. (10 Marks)

Module-2

- 3 a. Discuss the contribution of the Pallavas to the early Dravidian temple architecture. (06 Marks)
- b. Describe the rathas at Mamallapuram, highlighting their architectural style and typology. (07 Marks)
- c. Explain the architectural features of the shore temple. (07 Marks)

OR

- 4 a. Describe the key architectural features of early Hindu Temples at Udaigiri, Tigawa and Sanchi. (10 Marks)
- b. Differentiate between Indo – Aryan and Dravidian temple architecture with suitable sketches. (10 Marks)

Module-3

- 5 a. Describe the architectural features of Brihadeshwara Temple at Thanjavur, highlighting its monumental scale and design principles. (10 Marks)
- b. Discuss how the temple at Gangaikonda Cholapuram reflects the evolution of Chola temple architecture. (10 Marks)

OR

- 6 a. Discuss the architectural features of Meenakshi temple, Madurai with emphasis on gopurams and temple layout. (10 Marks)
- b. Explain the significance of Srirangam temple complex in terms of spatial planning and temple town typology. (10 Marks)

Module-4

- 7 a. Discuss the architectural features of Chennakesava temple, Belur focusing on Hoysala principles of design. (10 Marks)
b. Describe the sculptural and spatial characteristics of Hoysalesvara temple at Halebid. (10 Marks)

OR

- 8 a. Discuss the design and symbolic features of the Lingaraja temple at Bhubaneshwar as an early example of Indo- Aryan (Nagara) temple. (10 Marks)
b. Explain how the star-shaped plan and plinth became a hallmark of Hoysala architecture. (10 Marks)

Module-5

- 9 a. Describe the key architectural features of the Sun temple at Modhera, Gujarat with a note on its symbolism and layout. (10 Marks)
b. Explain the plan and elevation of the Surya temple at Konark, Orissa, highlighting its chariot form and sculptural themes. (10 Marks)

OR

- 10 a. Write a short note on the Jain temples of Khajuraho with the emphasis on Chaumukhi temple at Ranakpur. (10 Marks)
b. Describe the layout and decorative program of the Hazara Rama Temple, Hampi. (10 Marks)

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21ENG26

Second Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 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. Calculate the dead load of R.C.C. slab of size
Width = 5 m ; Length = 6 m ; Thickness = 150 mm. (08 Marks)
- b. Describe the laboratory tests for the below materials:
i) Tensile strength of steel ii) Workability of concrete (12 Marks)

OR

- 2 a. Write important properties and uses of the following building materials:
i) Steel ii) Aluminium iii) Glass (08 Marks)
- b. Explain the following tests with example:
i) Dead load iii) Imposed load iii) Snow load iv) Earthquake load (12 Marks)

Module-2

- 3 a. Briefly explain the classification of Force System. (10 Marks)
- b. Calculate the resultant of the force system shown in Fig.Q3(b).

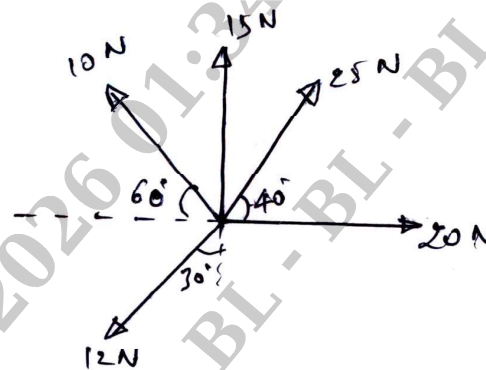


Fig.Q3(b)

(10 Marks)

OR

- 4 a. Differentiate between :
i) Rigid body and Deformable body
ii) Resolution of forces and Composition of forces (04 Marks)
- b. Write short notes on :
i) Principles of Transmissibility
ii) Moment of Force
iii) Free Body Diagrams
iv) Resultant of Force (16 Marks)

Module-3

- 5 a. Explain different types of loading for a beam with neat examples. (08 Marks)
- b. A simply supported beam of length 10 m, carries UDL and 2 point load as shown in Fig.Q5(b). Calculate the R_A and R_B .

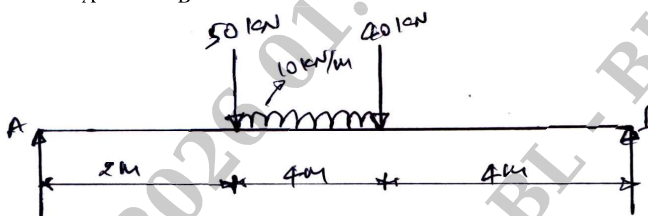


Fig.Q5(b)

(12 Marks)

OR

- 6 a. State and explain equilibrium of coplanar concurrent and coplanar non-concurrent force system. (08 Marks)
- b. Four coplanar forces equal to 2 KN, 3 KN, 5 KN and 7 KN are acting on a square body having its side as 1 m. Determine magnitude, direction and position of a simple resultant force from point 'A' as shown in Fig.Q6(b).

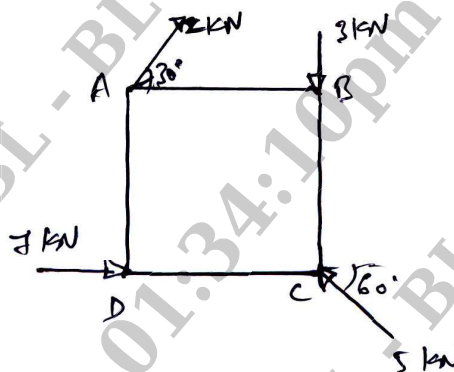


Fig.Q6(b)

(12 Marks)

Module-4

- 7 a. Briefly explain Parallel Axis Theorem, Perpendicular Axis Theorem and Radius of Gyration. (05 Marks)
- b. Find the centroid of the Fig.Q7(b).

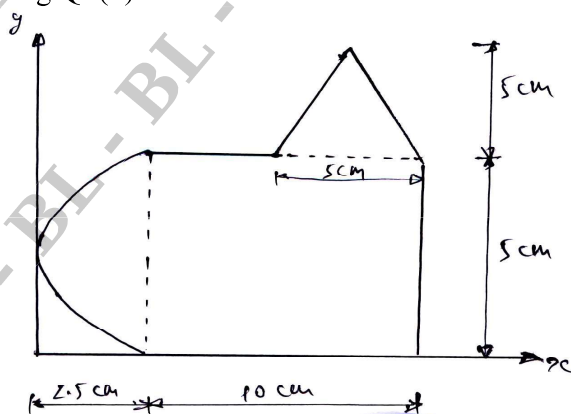


Fig.Q7(b)

(15 Marks)

OR

- 8 a. Determine the centroid for the Fig.Q8(a).

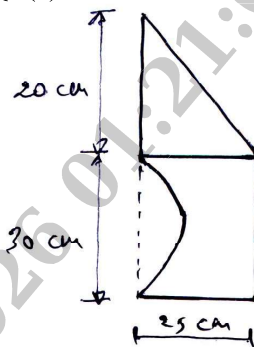


Fig.Q8(a)

(10 Marks)

- b. Calculate the M.I for asymmetrical I-section where

- (i) Top- flange = 160 mm × 12 mm
- (ii) Bottom flange = 240 mm × 12 mm
- (iii) Web = 200 mm × 10 mm

Find I_{xx} and I_{yy} .

(10 Marks)

Module-5

- 9 a. What are the assumptions made in the analysis of Trusses?

(10 Marks)

- b. Analyze the truss shown in below Fig.Q9(b).

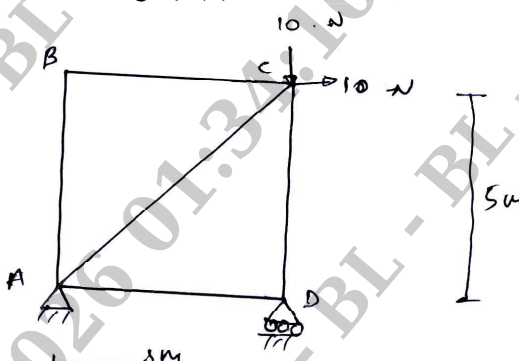


Fig.Q9(b)

(10 Marks)

OR

- 10 Find the force in all the members shown in Fig.Q10.

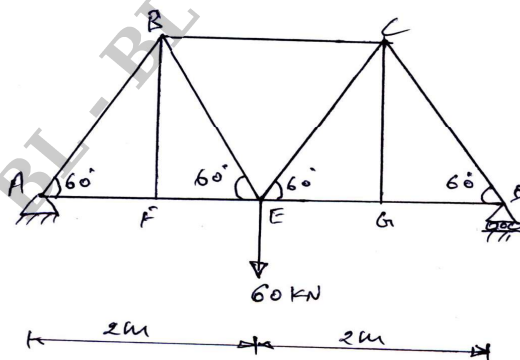


Fig.Q10

(20 Marks)

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21ARC33

Third Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 Climatology

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Draw sketches wherever necessary.*

Module-1

1 List the major Climatic zones of India along with their characteristics and design strategy. (20 Marks)

OR

2 Write short notes on the following :

- Thermal Balance of the Human Body
- Bioclimatic chart
- Mean Radiant Temperature
- IMAC Model

(20 Marks)

Module-2

3 Explain use of Psychrometric chart and demonstrate how any particular point moves in the chart for evaporative cooling. (20 Marks)

OR

4 Draw and explain a sun path diagram for any city located on the equator. Also illustrate how this changes if the city is located in the north of southern hemisphere. (20 Marks)

Module-3

5 Compare the construction techniques for improving thermal performance of walls and roof in hot and dry climate and warm and humid climate. (20 Marks)

OR

6 Write short notes on the following :

- Thermal conductivity
- Specific heat
- Resistance
- Time lag.

(20 Marks)

Module-4

7 a. Describe the different type of shading devices with relevant sketches. (10 Marks)

b. Design appropriate shading device for west façade where azimuth is 280° and altitude is 38° and window is 1500×1800 mm. (10 Marks)

OR

- 8 a. What is Stack effect? Explain the various parameters that affect stack ventilation. (10 Marks)
b. Explain any two passive cooling techniques and the appropriate climatic zone of usage. (10 Marks)

Module-5

- 9 a. What is day light factor and illustrate the various components of day light factor. (10 Marks)
b. What are some of the ways to optimize day light inside a building. (10 Marks)

OR

- 10 Explain the design consideration for hot and dry climate using a case study as an example. (20 Marks)

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21ARC34

Third Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 History of Architecture – III

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Discuss the basic building typologies that emerged during the early phase of Islamic architecture in India. (10 Marks)
- b. Discuss the techniques used by the builders to provide a circular based dome over a square plan, using an appropriate example from the Imperial style of architecture. (10 Marks)

OR

- 2 a. Analyze the contribution of Firoz Shah Tughlaq to Indo-Islamic architecture with suitable example. (14 Marks)
- b. Recognize the influence of the Tughlaq style on the structures built later by other dynasties with an appropriate example. (06 Marks)

Module-2

- 3 a. Assess the influence of the geographical condition of Bengal on the architecture of Eklakhi Tomb in Pandua. (10 Marks)
- b. Explain the salient features of Jami Masjid, Ahmedabad. (10 Marks)

OR

- 4 a. Recall the special features of Bijapur style using Gol Gumbaz as an example. (12 Marks)
- b. Discuss in detail the features of Ibrahim Rauza, Bijapur, with neat illustrations. (08 Marks)

Module-3

- 5 a. Explain the design of Jami Masjid, Gulbarga with suitable illustrations. (10 Marks)
- b. Discuss the influence of Persian style in the design of Madrassa of Mond Gawan in Bidar. (10 Marks)

OR

- 6 a. Identify the salient features of Humayun's tomb in Delhi, with the help of illustrations. (10 Marks)
- b. Highlight the important features of Buland Darwaza at Fatepur Sikhri with sketches. (10 Marks)

Module-4

- 7 "Akbar's tomb is not considered as a regular Islamic tomb." Discuss the design of Akbar's tomb, while highlighting the features that distinguish it from other tomb structures. (20 Marks)

OR

- 8 a. Explain the Mughal concept of “Tomb in a garden” with relevance to Taj Mahal, Agra. (12 Marks)
- b. Elaborate on the features of Itmad ud Daula’s tomb, Agra and discuss how it acts as a stepping stone for Taj Mahal. (08 Marks)

Module-5

- 9 a. Discuss the contributions of Sir Edward Lutyens and Sir Herbert Baker in the city planning of New Delhi. (15 Marks)
- b. Explain the design of India Gate, Delhi with the help of sketches. (05 Marks)

OR

- 10 Write short notes with neat sketches for the following :
- a. Mysore Place, Mysore (10 Marks)
- b. Chhatrapati Shivaji Terminus, Mumbai (10 Marks)

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21ARC35

Third Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 Building Services – I

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Give a brief explanation about urban and rural sanitation with respect to water supply engineering. (08 Marks)
- b. Explain any two Ground Water Source and Surface Water Source each. (08 Marks)
- c. Comment on water borne epidemic diseases. (04 Marks)

OR

- 2 a. Differentiate between slow sand filter and rapid sand filter. (08 Marks)
- b. Explain distribution of water to fixture and fittings with a neat schematic diagram. (08 Marks)
- c. Explain Gravity system and Hydro pneumatic system of pumping of water. (04 Marks)

Module-2

- 3 a. Explain the objectives of sewage treatment. (08 Marks)
- b. Differentiate between piped drains and open drains. (08 Marks)
- c. Give a brief note on :
 - (i) Manhole
 - (ii) Gully trap(04 Marks)

OR

- 4 a. Briefly explain the collection, conveyance and disposal procedure of sewage with a neat schematic diagram. (10 Marks)
- b. Differentiate between Aerobic and Anaerobic type of sewage treatment. (05 Marks)
- c. Briefly explain the importance of rain water harvesting. (05 Marks)

Module-3

- 5 Write short notes on:
 - (i) One pipe system
 - (ii) Single stack system
 - (iii) Piping in Sunken areas
 - (iv) Globe valves(20 Marks)

OR

- 6 a. Define trap and explain the uses and requirement of a good trap. (10 Marks)
b. Explain the different materials of construction of plumbing pipes. (10 Marks)

Module-4

- 7 a. Briefly explain the terms :
(i) Bio methanation
(ii) Vermi composting. (10 Marks)
b. Briefly explain the different wellness products in sanitary fittings. (10 Marks)

OR

- 8 a. Explain the process of collection segregation treatment and disposal of solid wastes. (10 Marks)
b. Differentiate between wash basin and sink. (05 Marks)
c. Comment on waste to wealth concept in solid waste management. (05 Marks)

Module-5

- 9 a. Briefly explain the importance of fire and safety systems in a building. (10 Marks)
b. List class of fire extinguishers for various fire hazards. (10 Marks)

OR

- 10 Write a short notes on:
(i) Smoke detectors.
(ii) Fire alarm
(iii) Causes of fire
(iv) Code of practice (20 Marks)

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21ARC36

Third Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 Building Structure – II

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain the following terms :
- Stress
 - Strain
 - Young's modulus
 - Factor of safety.
- (10 Marks)
- b. Explain stress-strain curve for mild steel subjected to tensile load. (10 Marks)

OR

- 2 a. A steel rod of 2.5 cm diameter is subjected to forces as shown in Fig.Q2(a) find total elongation of the rod. Take $E = 200 \text{ kN/mm}^2$.

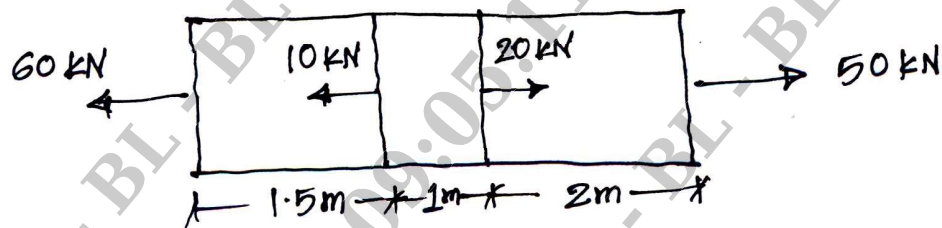


Fig.Q2(a)

(10 Marks)

- b. Find maximum and minimum stresses produced in the stepped bar shown in Fig.Q2(b), due to axially applied compressive load of 20 kN.

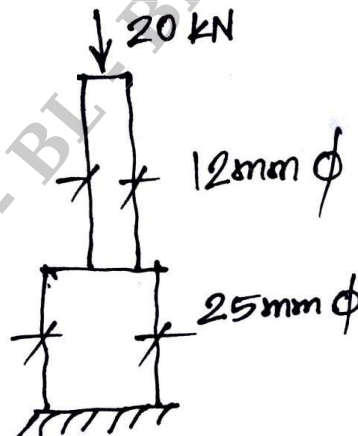


Fig.Q2(b)

(10 Marks)

Module-2

- 3 a. Define the following :
- Bulk modulus
 - Rigidity modulus
 - Poisson's ratio
 - Temperature stresses. (10 Marks)
- b. A copper rod of 20 mm in diameter is encased in a steel tube 25 mm internal diameter and 30 mm external diameter. Their ends are rigidly connected. The composite bar is 400 mm long and is subjected to an axial pull of 25 kN. If $E = 215 \text{ kN/mm}^2$ and $E_C = 110 \text{ kN/mm}^2$ calculate the stress induced in the rod and the tube. (10 Marks)

OR

- 4 a. A steel rod 6 m long is connected to two grills one at each end at a temperature of 40°C . Find the stresses developed when the temperature rises to 100°C .
- If the ends do not yield
 - If the ends yield by 1mm
 - Elongation if it is free to expand. (12 Marks)
- b. Explain the concept of temperature stresses on structural elements. (08 Marks)

Module-3

- 5 a. Write expression for effective length of column for various end conditions. (10 Marks)
- b. Calculate the safe compressive load on a hollow cast iron column (one end rigid and other hinge) of 15 cm external diameter, 10 cm internal diameter and 10 m in length. Use Euler's formula with a factor of safety 5 and $E = 95 \text{ kN/mm}^2$. (10 Marks)

OR

- 6 a. Explain Euler's formula for long columns. What are the assumptions and limitations of Euler's theory for critical load on a long column? (10 Marks)
- b. A solid round bar 3m long and 5 cm in diameter is used as a strut with both ends hinged. Determine the crippling load. Take $E = 2 \times 10^5 \text{ N/mm}^2$. Determine the crippling load if both ends of the strut are fixed. (10 Marks)

Module-4

- 7 a. A simply supported beam of 6m long is subjected to point load of 2 kN, 5 kN and 4 kN at distance 1.5 m, 3 m and 4.5 m from the left support respectively. Draw SFD and BMD for the beam. (10 Marks)
- b. A simply supported beam of span 6 m is subjected to a concentrated load of 25 kN acting at a distance of 2 m from left support. The beam is also subjected to an udl of 10 kN/m over the entire span. Draw SFD and BMD indicating maximum and minimum values. (10 Marks)

OR

- 8 Draw BMD and SFD for overhanging beam shown in Fig.Q8.

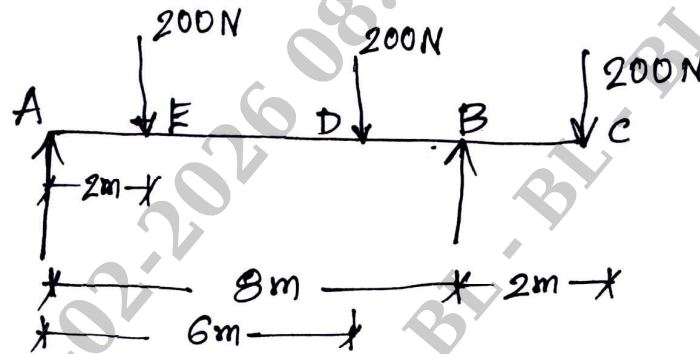


Fig.Q8

(20 Marks)

Module-5

- 9 a. Write expression for section modulus for the following :
- Rectangular section
 - Hollow rectangular
 - Circular
 - Hollow circular section.
- (10 Marks)
- b. A rectangular beam 300 mm deep is simply supported over a span of 4 m. What udl the beam may carry if the bending stress is not to exceed 120 N/mm^2 . Take $I = 8000 \times 10^4 \text{ mm}^4$.
- (10 Marks)

OR

- 10 a. Write bending equation and what are the assumptions made in theory of simple bending.
- (08 Marks)
- b. A beam T-section flange – $100 \times 20 \text{ mm}$ and web – $80 \times 20 \text{ mm}$ is simply supported on a span of 8 m. The beam carries a udl of 1.5 kN/m length on the entire span. Determine the maximum tensile and maximum compressive stresses.
- (12 Marks)

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21ARC43

Fourth Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 History of Architecture – IV

Time: 3 hrs.

Max. Marks:100

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

Module-1

- 1 With sketches, explain the variations in the design and proportioning systems of the 3 Greek columnar orders. What were some of the methods of optical correction employed in the design of a typical Greek temple? (20 Marks)

OR

- 2 With the help of a diagram, explain the layout of the sacred Precinct of the Acropolis at Athens. Mark the position of the Parthenon and describe its architectural features with the help of drawings. (20 Marks)

Module-2

- 3 Describe the salient architectural features of any 2 of the following buildings, with the help of drawings :
- The Pantheon
 - The Flavian Amphitheatre (Colosseum)
 - The Basilica of Trajan.
- (20 Marks)

OR

- 4 The Baths of Caracalla can be considered among the crowing achievements of the Roman civilization's technical expertise, as well as an example of their indulgent lifestyle. Support the above statement through a relevant description and drawings of the baths. (20 Marks)

Module-3

- 5 Explain the growth of the Roman Forum, from the republic period (753 – 509 BC) up to Trajan's reign in the imperial period (117AD). Sketch the spatial relationship of the various forms with reference to each other. (20 Marks)

OR

- 6 Citing relevant examples, discuss the evolution of the early Christian Church. How was the form of the Church a response to the rituals of Christianity as a religion? (20 Marks)

Module-4

- 7 The Hagia Sophia by Emperor Justinian was considered the pinnacle of centralized Church architecture. Describe its spatial layout and structural features that enhanced the feeling of sacred space within. (20 Marks)

OR

8 Describe the architectural features of any 2 of the following buildings :

- i. St. Mark's Basilica and Square, Venice, Italy
- ii. Pisa Cathedral Precinct, Pisa, Italy
- iii. Angouleme Cathedral, Angouleme, France.

(20 Marks)

Module-5

9 With the help of drawings, describe the typical architectural features of a gothic period church, using the Notre-Dame Cathedral in Paris as an example. (20 Marks)

OR

10 Define the following terms with supporting sketches :

- i. Ribbed vault
- ii. Flying Buttress
- iii. Pointed Arch
- iv. Rose Window
- v. Transept.

(20 Marks)

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21ARC44

Fourth Semester B.Arch. Degree Examination, Dec.2025/Jan.2026 Building Services – II

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. List and describe any four Indian Codes or Standards that are applicable to electrical services in buildings. (08 Marks)
- b. What are the roles of the State Electricity Board and the Chief Electrical Inspectorate in electrical services approval and compliance? (06 Marks)
- c. How do these standards and authorities influence the design and execution of electrical systems in a building? Provide atleast two examples. (06 Marks)

OR

- 2 a. Explain the concept of ecological imbalance and how conventional electricity generation contributes to it. (05 Marks)
- b. List and explain any three green technologies used for electricity generation in buildings. (09 Marks)
- c. What are the design and implementation challenges when integrating green power into conventional electrical systems of buildings? Provide two challenges with solutions. (06 Marks)

Module-2

- 3 Explain the internal electrical distribution system of a high-rise commercial building with reference to all major components involved. (20 Marks)

OR

- 4 Explain how renewable energy systems can be integrated into the electrical design of a Net Zero Energy Building and discuss the role of energy conservation and thermal load reduction in achieving net zero status. (20 Marks)

Module-3

- 5 a. Explain the working principle, applications and differences among MCB's, ELCB's, MCCB's and ACB's. (16 Marks)
- b. Describe the role and importance of protection relays in an electrical system. (04 Marks)

OR

- 6 a. Describe in detail the purpose and types of earthing systems used in buildings. What factors influence the selection for an earthing system? (12 Marks)
- b. Explain the design considerations of a lightning protection system as per NBC and relevant standards. (08 Marks)

Module-4

- 7 a. Describe the various types of lamps used in building lighting systems, discussing their efficiency and sustainability. (12 Marks)
- b. Explain the main lighting techniques and discuss the integration of daylight with artificial lighting in energy-efficient design. (08 Marks)

OR

- 8 Explain the principles of lighting design. Describe high energy and low energy lighting systems and discuss the role of control systems in improving lighting efficiency and reducing energy consumption (20 Marks)

Module-5

- 9 Explain the key components and requirements of extra low voltage systems in residential or apartment buildings. (20 Marks)

OR

- 10 Describe the process of residential electrical layout design and explain how electrical load estimation is carried out complying with local building codes. (20 Marks)

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CBCS SCHEME

21ARC/CIP46

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Question Paper Version : A

Fourth Semester B.Arch. Degree Examination, Dec.2025/Jan.2026

Constitution of India and Professional Ethics

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. How many parts does the Indian Constitution have?
a) XXII b) XIX c) XXV d) XXI
 2. The Constitution of India was constituted in.
a) 1946 b) 1952 c) 1947 d) 1950
 3. Indian Constitution holds which type of system?
a) Federal b) Feudal c) Unitary d) Quasi - Federal
 4. How many schedules does the Indian Constitution have?
a) X b) XII c) VIII d) XI
 5. Which articles talk about Right to Freedom?
a) Art. 19-22 b) Art. 14-18 c) Art. 25-28 d) Art. 32-35
 6. How many major Fundamental Rights are there in the Indian Constitution?
a) 4 b) 5 c) 6 d) 7
 7. How long did it take to write the Indian Constitution?
a) 2Y 10M 18D b) 2Y 11M 18D c) 2Y 10M 19D d) 2Y 11M 19D
 8. Which Articles talk about Right to Equality?
a) Art. 19 - 22 b) Art. 14 - 18 c) Art. 25 - 28 d) Art. 32 - 35

9. The 8th schedule of the Indian Constitution is
 a) List of official languages of the Republic of India
 b) Provision regarding disqualification on the grounds of defection
 c) Provision regarding administration and control of SC & ST
 d) Provision regarding Acts & Regulation.
10. Which Fundamental Rights of the Indian Constitution safeguards one's right to marry the person of one's choice?
 a) Right to Equality
 b) Right against Exploitation
 c) Right to Freedom
 d) Right to Freedom of Religion
11. Which of the following is NOT the feature of the Indian Constitution?
 a) Rigid & Flexible
 b) Judicial Review
 c) Parliamentary system
 d) None of these
12. What is the full form of DPSP?
 a) Directive Policy of State Principles
 b) Direct Policy of State Principles
 c) Directive Principles of State Policy
 d) Direct Principles of State Policy
13. DPSP comes under which part of the Indian Constitution.
 a) Part - IV
 b) Part - V
 c) Part - VI
 d) Part - VII
14. "Untouchability is abolished and its practice in any form is forbidden", is the essence of which of the following Articles?
 a) Art. 14
 b) Art. 15
 c) Art. 16
 d) Art. 17
15. Which of the following Articles of Indian Constitution States "No Child below the age of 14 yrs shall be employed to work in any factory or mine or engage in any other hazardous employment?"
 a) Art. 22
 b) Art. 23
 c) Art. 24
 d) Art. 25
16. Which of the following is the foundation of the Indian Constitution?
 a) Preamble
 b) Parts
 c) Schedule
 d) Appendices
17. Which of the following is NOT the characteristics of Fundamental Rights?
 a) They are justifiable in nature
 b) They are amendable
 c) They can be suspended
 d) They are absolute
18. Who framed the Indian Constitution?
 a) Advisory Committee
 b) Constituent Assembly
 c) Drafting Committee
 d) Drafting Assembly
19. Which Article of the Indian Constitution directs the state to take steps to separate the judiciary from the executive?
 a) Art. 44
 b) Art. 50
 c) Art. 52
 d) Art. 58
20. Prohibition of traffic in Human beings and forced labour comes under which of the following Fundamental Rights?
 a) Right to Freedom
 b) Right against Exploitation
 c) Right to Education and Culture
 d) Right to Constitutional Remedies

21. The President of India can be removed from office by
 a) Impeachment by Parliament b) Supreme Court Verdict
 c) Prime Ministers recommendation d) State Governor's decision
22. Which Article deals with the appointment and composition of the Union Council of Ministers?
 a) Art. 72 b) Art. 73 c) Art. 75 d) Art. 76
23. Who is the chairman of Council of Ministers?
 a) Home Minister b) Prime Minister c) Finance Minister d) None of these
24. The concept of Judicial Review in India implies that
 a) The Supreme Court has the power to interpret the Constitution and declare any law as unconstitutional.
 b) The President can review decisions of Supreme Court
 c) The Parliament can review the decision of Supreme Court
 d) The High Court can review the decision of Supreme Court
25. Who appoints the Chief Minister of a State?
 a) Governor b) President c) Prime Minister d) Chief Justice
26. The term of office for the President of India is
 a) 6 yrs b) 5 yrs c) 4 yrs d) 3 yrs
27. Who has the power to dissolve the Legislative Assembly of a State in India?
 a) President of India b) Governor of the State
 c) Chief Minister of the State d) Speaker of the Legislative Assembly
28. Which of the following is NOT a qualification to become a member of the Lok Sabha?
 a) Must be a citizen of India
 b) Must not be less than 25 years of age
 c) Must possess educational qualification
 d) Must not hold any office of profit under the Government
29. Which of the following is INCORRECT regarding office of Chief Minister?
 a) Minimum age is 25 years
 b) No restrictions on the number of terms of a Chief Minister
 c) Chief Minister shall belong to the largest political party in Legislative Assembly
 d) The Constitution does not prescribe the age of retirement for Chief Minister
30. The Election Commission does not conduct elections to the
 a) Lok Sabha b) Rajya Sabha
 c) Local bodies d) President and Vice President
31. The collective responsibility of the Union Council of Ministers lies to
 a) Rajya Sabha b) Lok Sabha c) Prime Minister d) President
32. The Legislative Council in a State can be created or abolished by the
 a) State Legislative Assembly
 b) Parliament alone
 c) Parliament in recommendation of the State Legislative Assembly
 d) President on recommendation of the Governor

45. Good work means
- a) Superior work done with great care and skill
 - b) Responsible work
 - c) Work above and beyond the call of duty
 - d) Work involving high risk
46. Which of the following is not a concept of responsibility?
- a) Minimalist
 - b) Reasonable care
 - c) Maximalist
 - d) Good works
47. Revealing confidential information amounts to
- a) Misusing the truth
 - b) Breach of contract
 - c) Criminal breach of trust
 - d) Violation of patent right
48. Tendency of shifting responsibility will logically come down if there is
- a) Group thinking
 - b) Microscopic vision
 - c) Fear
 - d) Self interest
49. "Being safe or blaming others" is type of attitudes of responsibility of engineers.
- a) Responsible care
 - b) Minimalist
 - c) Good work
 - d) None of these
50. This is not Dishonesty in Engineering
- a) Trimming
 - b) Blending
 - c) Negligently
 - d) Intentionally
