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**B.Arch. Degree III Semester Regular/Supplementary Examination  
November 2024**

**AR 1303 HISTORY OF ARCHITECTURE III : INDIAN ARCHITECTURE –  
ANCIENT TO MEDIEVAL PERIOD  
(2021 Scheme)**

Time: 3 Hours

Maximum Marks: 100

*(Illustrations in answers carry due marks)*

**PART A  
(Answer ALL questions)**

(8 × 5 = 40)

- I. Write short notes on the following
- Social structure of Vedic society.
  - Architectural features of Vedic homes.
  - Viharas at Nasik.
  - Ashoka Pillar.
  - Sun Temple Konark.
  - Kailasanatha Temple, Ellora.
  - Rock cut productions under Pallavas.
  - Temple towns.

**PART B**

(4 × 15 = 60)

- II. Discuss the key features of a typical Vedic village, focusing on its social structure and economic activities. Elaborate on its layout and building materials used for construction.
- OR**
- III. Discuss the various debates and theories regarding the origins of early Hinduism in connection with the Vedic Civilization.
- IV. Examine the key features of Jain architecture, highlighting the importance of materials and construction techniques in temple architecture.
- OR**
- V. Discuss the architectural elements and symbolism of Buddhist stupas, rock-cut caves and monasteries. How do these structures reflect the spiritual and cultural principles of Buddhism?
- VI. Elaborate on the elements of temple architecture during the Gupta and Chalukyans period.
- OR**
- VII. Compare and contrast the temple architecture of Northern India with Central India using suitable examples.
- VIII. Discuss on the architectural style during Hoysala period using suitable examples
- OR**
- IX. Compare and contrast the architectural features and cultural significance of the Shore Temple at Mahabalipuram and the Brihadeshwara Temple at Thanjavur.

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November 2024***

**AR 1302 BUILDING MATERIALS AND CONSTRUCTION - III  
(2021 Scheme)**

Time: 4 Hours

Maximum Marks: 100

- Instructions:**
- One drawing sheet to be supplied.*
  - Assume suitable details and dimensions wherever necessary.*
  - Illustrations in answer carry due mark.*
  - Credit will be given for following standard architectural drafting and detailing conventions.*

**PART A  
(Answer ALL questions)**

(8 × 5 = 40)

- I. Write short notes on the following
- Plate load test.
  - Expansion and contraction joint in concrete.
  - Criteria for selection of aluminium.
  - Applications of copper.
  - Dog-legged staircase.
  - Timber flooring.
  - Lintel beam.
  - Shuttering.

**PART B**

(4 × 10 = 40)

- II. Enumerate the several ways to boost soil bearing capacity and provide a detailed explanation of any two.
- OR**
- III. List out and briefly explain the different components of concrete and their specific roles in its composition.
- IV. Explain the properties, advantages and applications of mild steel as a construction material in architecture.
- OR**
- V. With relevant sketches explain in detail any ten forms of steel in the market.
- VI. What are the different types of stairs based on geometry? Illustrate and explain in detail.
- OR**
- VII. What are the different types of flooring? Explain any two in detail with relevant sketches.

**(P.T.O.)**

B.Arch-III(R/S)-11-24-3469

VIII. Explain the principles and components of framed structures and list their advantages and disadvantages over load bearing structures.

**OR**

IX. What do you mean by shallow foundation? Explain in detail the different types of shallow foundations.

**PART C**

(1 × 20 = 20)

X. Draw the plan and section of a straight RCC staircase with a mid-landing, spanning a height of 3 meters to a reasonable scale. Assume any other necessary dimensions.

XI. Draw the plan and section and view of a two-way slab, clearly indicating reinforcement details, support conditions and bending pattern in a suitable scale.

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