

## B.Arch. (Sem.-2) (NS 2015K) Examination

AR 202

Building Construction-2

April 2019

Time : 3-00 Hours]

[Max. Marks : 100

## Instructions:

- All questions are compulsory
- Support your answer with sketches and figures if required
- Assume suitable data wherever required
- Use Drawing Sheet for Q-1,
- Figures to the right indicate full marks

- Q-1 Draw plan and Elevation of two consecutive courses of a 1½ brick-Thick wall in English or Flemish bond at **TEE**- junction 35  
Or  
Draw plan and Elevation of two consecutive courses of a 1½ brick Thick wall in English or Flemish bond at **SQUINT**- junction (take 120 angle)
- Q-3 Answer any three. 12
- i) List types of joint in concrete construction
  - ii) List various Bond use in brick Masonry
  - iii) List various Bond use in stone Masonry
  - iv) List types of Partition Wall
- Q-4 Give Differentiate (any two) 10
- i) Stone masonry and brick masonry
  - ii) Cavity wall and Partition wall
  - iii) Sub structure and Super Structure
- Q-5 Write shortnotes: (any three) 15
- a) infill wall construction
  - b) Compound wall
  - c) Dressing of stone
  - d) Machine mixing of concrete
- Q-6 Explain with proportional sketch (any three) 18
- 1) Cavity wall
  - 2) Composite masonry Wall construction
  - 3) Timber partition
  - 4) Load bearing wall
- Q-7 Property of cement concrete
- Q-8 What is the slump test of concrete? How is it carried out?  
Mention recommended slumps for concrete for different purposes 10

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**B.Arch. (Sem.-2) (NS 2015K) Examination****AR 204****History of Architecture****April 2019****Time : 2-00 Hours]****[Max. Marks : 50**

- Instructions:
- (1) All Questions are compulsory.
  - (2) Use neat sketches to illustrate your answer.
  - (3) Assume suitable data wherever necessary
  - (4) Figures on right indicate the full marks

**Q.1 Explain in details any 1 of following:****Marks 12**

Explain in detail the pyramid complex at Giza with sketches.

**OR**

Describe the Indus Valley Civilization on the basis of their town planning and construction techniques with emphasis on road network and water management.

**Q.2 Write a short note on any 3 of following: (3 out of 5).****Marks 12**

- a) Describe the evolution of architecture in the Prehistoric age.
- b) Describe rock-cut temple of Kailashnath at Ellora.
- c) Describe Ziggurats of Mesopotamia in general.
- d) Explain the evolution of form of & philosophical aspects of Hindu Temples.
- e) Architecture at Mahaballipuram.

**Q.3 Explain in details any 1 of following:****Marks 10**

Stone henge through various phases of development.

**OR**

Describe the ideology of Buddhism with special references to Stupas at Sanchi, Nalanda &amp; Sarnath.

**Q.4 Sketch the following with appropriate labeling.****Marks 10**

- a) Catal Huyuk
- b) Temple complex at deir el bahri
- c) Great bath at Mohenjodaro
- d) Temple Oval at Khafaje
- e) Ishtar Gate

**Q.5 Fill in the blanks.****Marks 06**

- a. Indus Valley Civilization can be defined as an \_\_\_\_\_ settlement.
- b. Temple at Modhera is a fine example of \_\_\_\_\_ building style
- c. Stupa at sanchi was commissioned by \_\_\_\_\_.
- d. Zoser complex is designed by \_\_\_\_\_.
- e. Vaastupurusha Mandala is component of \_\_\_\_\_ architecture.
- f. Largest ratha at Mahaballipuram is \_\_\_\_\_.

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