

**B.Tech. Civil (Construction Management)**

**Term-End Examination**

00854

December, 2017

**ET-521(B) : BUILDING ARCHITECTURE**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** *The question paper has two parts. Attempt any two questions from Part A and any three questions from Part B.*

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**PART A**

1. (a) How are form and space selected in Architectural design ?

(b) Briefly explain the following :

(i) Mastabas

(ii) Pyramids

(iii) Rock-cut temples

2×7=14

2. Compare the Romanesque style of architecture to Gothic style. Illustrate the same with appropriate examples. (Sketches are welcomed) 14

3. (a) Write a brief on the design and construction aspects of St. Peter's Basilica in Rome.
- (b) Highlight the system of construction of the Baroque Age.  $2 \times 7 = 14$
4. (a) What is Indo-Islamic architecture ?
- (b) What are the building types of Indo-Islamic architecture ? Explain with examples.  $2 \times 7 = 14$

## PART B

5. (a) What is the psychological dimension of space ?
- (b) What are the environmental factors and how does a building modulate it ?  $2 \times 7 = 14$
6. Why is energy conservation important in buildings ? List out the energy rating systems and explain any one in detail.  $14$
7. (a) Explain the following :
- (i) Arch
  - (ii) Vault
  - (iii) Trusses
  - (iv) Space frame
- (b) Describe pile foundation. Illustrate with live examples.  $2 \times 7 = 14$
8. (a) Discuss the structural system options possible for
- (i) Spiral staircase, and
  - (ii) Dog-legged staircase.
- (b) List out the stages of execution at site for
- (i) Plaster,
  - (ii) Distemper, and
  - (iii) Emulsion.  $2 \times 7 = 14$

- 9. (a) Explain the importance of building regulations.**
- (b) Explain the role of an architect vis-a-vis the construction management aspect of a building project.  $2 \times 7 = 14$**
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