

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

**Term-End Examination**

00312

**December, 2016**

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

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** *This question paper consists of two parts. Attempt any **two** questions from Part A and any **three** questions from Part B. Each question carries equal marks.*

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**PART A**

1. (a) Discuss, in detail with neat sketches, the types of problems solved through architectural design. Also establish the relationship of architectural principles with the principles of visual design. 6
- (b) Discuss, in detail with neat sketches, the following principles of design : 8
  - (i) Balance — Symmetrical and Asymmetrical
  - (ii) Contrast
  - (iii) Rhythm
  - (iv) Harmony

- 2. (a) Describe the following :**
- (i) Mastabas 2
  - (ii) Rock Cut Tomb and Rock Cut Temples 2
  - (iii) Pyramids 2
- (b) Make neatly labelled sketches of the following :**
- (i) Pantheon 4
  - (ii) Amphitheatre 4
- 3. Write down with neat sketches the salient features of Buddhist architecture and Hindu architecture.** 14

## PART B

4. (a) "The activity to be performed is the determinant of the size of the space." Explain. 7
- (b) Discuss the psychological impact of the dimension of the space on its occupant. 7
5. (a) Narrate the differences between concept drawing and working drawing. Discuss how the concept of an architectural design is evolved. 6
- (b) Discuss the important methods to achieve energy conservation in a building. 8
6. (a) Explain the various types of writing systems. 6
- (b) Explain the single air-conditioning system with schematic diagrams. 8
7. (a) Write short notes on the following with neat sketches :
- (i) Types of commonly used flooring (floor coverings) 4
- (ii) Classification of R.C.C. floors 3
- (b) Enumerate the different types of tenders. 7

- 8. (a) Explain the following with neat sketches :**
- (i) Arch and Vaults 3
  - (ii) Tensile structures and Cable roof structures 5
- (b) Explain the following with neat sketches :**
- (i) Various types of Traps 2
  - (ii) Septic Tank and Soak Pit 4
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