

B.Tech. Civil (Construction Management)

Term-End Examination

00760

June, 2016

ET-521(B) : BUILDING ARCHITECTURE

Time : 3 hours

Maximum Marks : 70

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.*

PART A

1. (a) "Design is a problem-solving activity."
Explain in detail with neat sketches. 5
- (b) Discuss the following with respect to architectural design : 9
- (i) Order
- (ii) Character
- (iii) Meaning

2. (a) Describe the factors which influenced the Egyptian Architecture. Discuss the system of construction in Egyptian Architecture. 7
- (b) Explain the various Orders in Greek Architecture with neat sketches. 7
3. (a) "Form follows Function." Justify the statement with neat sketches. 5
- (b) Define 'Renaissance'. Discuss the salient features of St. Peter's, Rome, and support it with sketches. 9

PART B

4. Explain the following with neat sketches : 14
- (a) Golden Ratio
 - (b) Le Corbusier's Modular System based design
 - (c) Percentile in anthropometric data
5. What do you understand by climate responsive building ? Explain how we can achieve climate responsive design. 14
6. (a) Discuss various types of shallow foundations with neat sketches. 7
- (b) Discuss various types of deep foundations with neat sketches. 7
7. Write short notes on the following with neat sketches : 14
- (a) Cavity wall
 - (b) Partition wall
 - (c) Quoins
 - (d) Header and Stretcher Course
8. (a) Explain the following with neat sketches :
- (i) Geodesic Dome 3
 - (ii) Pneumatic Structures 3
- (b) Discuss the duties and liabilities of an architect. 8
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