

B.Tech. Civil (Construction Management)

Term-End Examination

00453

June, 2018

ET-521(B) : BUILDING ARCHITECTURE

Time : 3 hours

Maximum Marks : 70

Note : *Part A is compulsory. Attempt any four questions from Part B. Supplement your answers with diagrams/sketches as much as possible.*

PART A

1. What are environmental factors and how do they shape up the building ? Illustrate your answer for composite climate. 10

2. Write short notes on any **four** of the following : 4×5=20
 - (a) Structure system of Panch (5) Rathas of Mahabalipuram
 - (b) Relationship between space and activities
 - (c) Filippo Brunelleschi
 - (d) Advantages of CAD over Traditional drafting methods
 - (e) Three Greek orders of columns
 - (f) Rock-Cut Architecture

PART B

3. Enumerate the role of an engineer to translate the vision of an architect with respect to form and its execution at site. 10

 4. What do we understand by shell structures ? Illustrate with three examples and supplement with sketches. 10

 5. Highlight the importance of building regulations and norms of a local authority. Explain what do you understand by completion certificate. 10

 6. With the help of sketches, explain the transfer of loads for the following : 10
 - (a) Arches
 - (b) Vaults
 - (c) Domes

 7. Discuss the role played by “quality of light” in the interior of a Gothic Cathedral. 10
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