No. of Printed Pages: 3

ET-521(B)

B.Tech. Civil (Construction Management)

Term-End Examination

December, 2018

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ET-521(B): BUILDING ARCHITECTURE

Time: 3 hours

Maximum Marks: 70

Note: Question no. 1 is compulsory. Attempt five questions in all. All questions carry equal marks. Supplement your answers with diagrams/sketches as much as possible.

- 1. (a) What are the stages of development of design by an architect?
 - (b) Describe and draw to illustrate Cavity wall and Rat trap bond in brick. $2\times7=14$
- 2. (a) What was the system of water supply in Roman architecture?
 - (b) Explain the system of construction in Hindu Temple architecture. $2\times7=14$

3.	What is the diffe	erence between S	Shell structure
	and Tensile str	ucture. Briefly	describe two
	examples of ter	sile structures	from modern
	architecture.		

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4. Discuss in detail the design and construction of St. Peter's Basilica in Rome (sketches are encouraged).

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- 5. (a) Differentiate between the following:
 - (i) Distemper and Varnish
 - (ii) Synthetic and Emulsion paints
 - (b) Differentiate between floor construction methods for Commercial buildings and Residential buildings. $2\times7=14$
- **6.** (a) Enumerate the relevance of scale and proportion of fenestrations in buildings.
 - (b) Differentiate between Lattice grid and Space frame. $2\times7=14$
- Discuss the relationship between thermal comfort and energy consumption in buildings.

- 8. Write short notes on any **two** of the following: (sketches are a must) $2\times7=14$
 - (a) Geodesic Dome
 - (b) Gully Trap and Septic Tank
 - (c) Types of Trusses
 - (d) Golden Section and Le Corbusier Module