

B.Tech III Year I Semester (R13) Supplementary Examinations June 2017

**BUILDING PLANNING & DRAWING**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Answer the following: 03 X 10 = 30 Marks)

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**UNIT – I**

- 1 Explain the building byelaws with reference to open space requirements and plinth area requirements.
- OR**
- 2 (a) On what considerations, the grouping of various units in residential buildings is made?  
(b) Write short notes on Floor Area Ratio (FAR), how it is related to height of the building. Explain.

**UNIT – II**

- 3 (a) Discuss about the usual requirements of a residential building.  
(b) Write short notes on grouping of buildings.

**OR**

- 4 What are the factors to be considered in the design of a bank building?

**UNIT – III**

- 5 Give a detailed note on noise and acoustic comfort. How do you design a building for thermal comfort?

**OR**

- 6 With explanatory notes on modern methods in construction management.

**PART – B**

(Answer the following: 01 X 10 = 10 Marks)

**UNIT – IV**

- 7 Draw the neat dimensioned sketch of a King Post Truss.

**OR**

- 8 Draw plans of Flemish bond with all the details.

**UNIT – V**

(Answer the following: 01 X 30 = 30 Marks)

- 9 A house of plinth area about 35 sqm is to be located in a plot of 10 m x 12 m. The shorter side is parallel to road running in East-West direction, with plot on Southern side of the road. The following rooms are required: One bed room, Drawing room, Kitchen, Bath and WC. Draw line plane and plan of building.

**OR**

- 10 Design and draw the line diagram and plan of corporate office building to a suitable scale and dimensions.

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