

II B. Tech II Semester Regular/Supplementary Examinations, November - 2020
BUILDING PLANNING AND DRAWING
 (Civil Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answer any **THREE** Questions from **PART-A**
 3. Answer any **ONE** Question from **PART-B**

(14 × 3 = 42M)

PART -A

1. a) List the objectives of building bye-laws and discuss the principle underlying building bye-laws. (7M)
- b) Explain the minimum size requirements for the following building components: Wall thickness, column and beam sizes, the height of a building and plinth level. (7M)
2. a) Explain the characteristics of various types of residential buildings with examples. (7M)
- b) Define the term orientation of building? List out the factors influencing the same. (7M)
3. a) Explain the landscaping requirements for an educational campus. (7M)
- b) Plan a post office in open space 300 sq.m. in a university? Explain different components involved in planning? (7M)
4. a) Recall the importance and significance of sign conventions in building drawing? (7M)
- b) Explain the English bond and Flemish bond with neat sketches (7M)
5. a) Under what circumstance the swing and fixed ventilators are provided. Explain (7M)
- b) Draw a plan for Glazed window and Panelled window (7M)

PART -B (1 × 28 = 28M)

6. a) Draw a detailed elevation of a king post truss of 8 m clear span. Indicate all features. (28M)
- b) Discuss the requirements for green belt and landscaping?
7. Draw the detailed plan, front elevation and section through X-X from line diagram of Fig 1. Specifications: all wall thickness (mm) is 200; the height of room is 3.5 meterstick plinth height as 500mm; slab thickness is 120mm, and parapet height is 750mm. Assume any other data suitably.

