

**II B. Tech II Semester Supplementary Examinations, April - 2021**  
**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) Explain the criteria for the classifications building and bye-laws (7M)
- b) Write about built up area limitation and explain about lightning and entilation requirements? (7M)
2. a) How do you select a site for construction of a residential house? List the different factors considered for the same. (7M)
- b) Draw a line sketch of residential buildings? (7M)
3. a) Write the importance and necessity in planning of hospitals. (7M)
- b) Plan a canteen office in open space 200 sq.m. in a town? Explain different components involved in planning? (7M)
4. a) Draw the sign for Glass, railway crossing, stone, wood and plater. (7M)
- b) Explain the English bond and Flemish bond with neat sketches. (7M)
5. a) Discuss the importance of open space requirements according to building bye-laws (7M)
- b) Draw a plan for Coupled and Collar roof. (7M)

**PART -B (1 × 28 = 28M)**

6. a) Draw a detailed elevation of a Queen post truss of 5m clear span. Indicate all features. (28M)
- b) Draw the plan and sectional elevation of a panelled and glazed door of size 1.5 X 2.5 m.  
Indicate all features



7. The line diagram of the plan of a residential building is shown in Fig 1. Draw (i) A neat dimensioned plan (ii) Sectional elevation along A-A.  
Specifications: Foundation: CC 1:2:4; 200 mm wide thick and 1200 mm wide, depth of foundation is 1000 mm below the ground level.  
Basement-coarse Rubble Masonry: 300 mm wide and 700 mm high  
Superstructure: Brickwork in CM 1:6, 300 mm wide and 300 mm high  
Roofing: 120 mm thick. Provide door, windows, ventilators and lintels and as per standard specifications.

