

Seat  
No.

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मजल - 004

## Building Construction Techniques & Materials (113104)

P. Pages : 2

Time : Three Hours

Max. Marks : 80

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any two** questions from each unit.
5. Figures to right indicate full marks.
6. Assume suitable data if necessary.
7. Answer all the questions of a unit at one place.

### UNIT - I

1. a) Explain load bearing and framed structure with sketch. 8
- b) List the types of foundations & give circumstances under which each is used ? 8
- c) Explain : 8
  - i) Various parts of building.
  - ii) Factor considered for selection of foundation.

### UNIT - II

2. a) List the various types of bond used in brick masonry ? Explain any one with sketch. 8
- b) Explain requirement of good form work in detail. 8
- c) Explain : 8
  - i) Types of wall.
  - ii) Precautions to be taken in masonry construction.

**UNIT - III**

3. a) State the types of staircase as per shape & explain any one in detail. 8
- b) List the types of doors and draw sketch of any four doors. 8
- c) Explain : 8
- i) Types of lintel.
- ii) Types of floors

**UNIT - IV**

4. a) Give the types of steel trusses ? Explain any one in detail with sketch. 8
- b) Explain about scaffolding and shoring in detail. 8
- c) Explain : 8
- i) RCC framed structure and their connections.
- ii) Connecting materials for steel trusses.

**UNIT - IV**

5. a) Explain qualities of good building stone and test on stone ? 8
- b) Explain defects in timber with sketch. 8
- c) Explain : 8
- i) Aluminum.
- ii) Test on bricks.

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