

Seat
No.

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मजल - 022

Building Construction & Materials (1030)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

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. Answer all the questions of unit at one place.
6. Figures to right indicate full marks.
7. Assume suitable data if necessary.

UNIT - I

1. a) Explain load bearing and frame structure with suitable sketch. **10**
b) State factors considered for selection of foundation. **10**
c) Explain. **10**
i) Bearing capacity of soil.
ii) Various parts of building - sub structure.

UNIT - II

2. a) List the types of bonds in brick masonry ? Explain any one in detail. **10**
b) State types of stone masonry ? Explain any one with suitable sketch. **10**
c) Explain. **10**
i) Function of formwork.
ii) Cavity wall construction.

UNIT - III

3. a) Explain Lintels and Arches with neat sketches. **10**
b) List the types of stair cases as per shape and explain its material used. **10**

- c) Explain. 10
- i) Marble flooring.
- ii) Types of Doors and windows.

UNIT - IV

4. a) Explain about plastering & pointing in detail. 10
- b) Explain scaffolding and shoring in detail. 10
- c) Explain. 10
- i) Advantages of prefabrication.
- ii) Steel trusses.

UNIT - V

5. a) Explain Manufacture of bricks & its uses. 10
- b) Explain. 10
- i) Qualities of good building stone.
- ii) Sound absorbent material.
- c) Explain. 10
- i) Testing of Timber.
- ii) Aluminum.
