

Seat No. 

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BAI1301

## Building Construction & Materials (New) (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. Attempt all **five** questions.
5. From each question attempt sub questions (any two out of a, b, c) such that every question is attempted for **20** marks.
6. Figures to the right indicates full marks.

### UNIT - I

1. a) State the different types of buildings & compare load bearing structure & framed structure. 10
- b) what is foundation ? What is the function of foundation ? State the different types of foundation. 10
- c) What is site exploration ? Purpose of site exploration state the methods of site exploration & explain any one method in detail. 10

### UNIT - II

2. a) State different types of partition wall & explain one. 10
- b) What is meant by formwork ? What are the requirements of good formwork. 10
- c) What is composite masonry ? What are the advantages of composite masonry ? State the different types & explain any one. 10

### UNIT - III

3. a) Draw neat sketch of six panelled double leaf door shutter with frame & define all the terms related to your sketch. 10

- b) Compare Arch & links & also explain in detail construction procedure of an Arch. 10
- c) Plan a dog legged staircase for a public building having floor to floor height 3.60m, assuming suitable size of rise, tread & width of stair. Draw plan & sectional elevation of the same. 10

**UNIT - IV**

4. a) What do you understand by scaffolding ? What are the essential requirements ? State the different types of scaffold of explain any one with neat sketch. 10
- b) What are the requirements of good plaster ? & Also explain the various defects in plastering. 10
- c) How distemper is applied on walls ? What are the advantages of distemper ? 10

**UNIT - V**

5. a) What do you understand by the term dressing of stone ? What are the advantages of quarry dressing ? Describe in brief the various reasons of decay of stone. 10
- b) What are the characteristics of good bricks ? How you will ascertain that the bricks reserved by you are of good quality. 10
- c) What should be the qualities of good timber ? Describe in brief & what are the objects of seasoning of timber ? 10

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