

22304

11920

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following:** **10**
- a) State the classification of building as per National Building Code Part III 2005.
- b) State any two purposes of Plinth.
- c) Define Job Layout.
- d) List two purposes of sharing.
- e) Define underpinning.
- f) Enlist functions of Sill and Lintel.
- g) State two necessities of Demolition.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Compare load bearing structure and framed structure.
(four points)
 - b) Explain the foundation layout of load bearing structure by centre-line method.
 - c) Describe the procedure of laying a floor finish on a newly constructed slab.
 - d) Define facing, backing, hearting and Through stone with neat sketch.
- 3. Attempt any THREE of the following:** **12**
- a) Draw a neat labelled section of a wall from foundation to parapet wall for load bearing structure.
 - b) Explain timbering and strutting in excavation with neat sketch.
 - c) Compare brick masonry and stone masonry used in building construction.
 - d) Draw a neat labelled sketch showing component parts of scaffolding.
- 4. Attempt any THREE of the following:** **12**
- a) State the necessity of providing
 - (i) Combined column footing and
 - (ii) Ruff foundation
 - b) Define formwork and state the requirements of a good formwork.
 - c) State the precautions to be observed in store masonry construction.
 - d) Draw neat sketch of fully paneled door.
 - e) State the necessity and importance of waterproofing in building construction.

5. Attempt any TWO of the following:**12**

- a) Suggest relevant type of foundation with sketch for a Residential Building with Marshy soil at a greater depth with justification and explanation.
- b) Describe in brief with neat sketch
 - (i) English bond
 - (ii) Flemish bond
- c) (i) Suggest commonly adopted sizes of door for
 - (1) Internal door of residential bldg.
 - (2) Door of garage for car park.(ii) Suggest most suitable type of window for
 - (1) Residential Bungalow
 - (2) Cinema Hall
 - (3) School
 - (4) Enclosed R.C.C. Staircase

6. Attempt any TWO of the following:**12**

- a) Enlist different types of staircase. Explain any one type with a neat sketch.
 - b) (i) Explain the procedure of internal plastering a newly built brick wall.
(ii) State the necessities of painting.
 - c) (i) Explain in brief Gunting and Grouting.
(ii) State the various causes of settlement of a structure.
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