

312338

24225

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 answer with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) 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) Enlist any four types of Scaffolding.
 - b) State any four factors affecting selection of construction materials.
 - c) Enlist four types of Timbering and strutting.
 - d) Define Termite proofing.
 - e) Enlist any four types of floor finishes.
 - f) Enlist two functions of –
 - i) Wall
 - ii) Door
 - g) List any two natural and artificial material each.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) State any four applications of Geopolymer Cement.
 - b) Draw a neat labelled sectional view of building showing various components.
 - c) State procedure of laying a floor finish on a newly constructed slab.
 - d) Enlist four types of stone masonry also state their suitability.
 - e) Draw a neat labelled sketch of window showing various components and enlist any four types of windows.
- 3. Attempt any THREE of the following:** **12**
- a) State properties of Thermal Insulating materials.
 - b) State classification of buildings as per NBC 2005 part-III.
 - c) Draw any four fixtures and fastening used for doors and windows.
 - d) Differentiate between End bearing pile and Friction pile.
(Any four points)
- 4. Attempt any THREE of the following:** **12**
- a) Draw a flow chart of manufacturing cement by wet process.
 - b) State any four requirements of good form work.
 - c) Enlist any four fibers used in construction also state their uses.
 - d) State necessity of painting. (Any four)
 - e) Enlist any four types of staircase with one use of each.

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

- a) Differentiate between stone masonry and brick masonry.
(Any six points)
- b) State procedure of applying double coat plaster in regards with—
 - i) Mix ratio
 - ii) Preparation of surface
 - iii) Application of first coat
 - iv) Application of second coat
 - v) Finishing
 - vi) Curing.
- c) Draw a neat labelled sketch of fully paneled doors.

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

- a) State any three types of foundation with neat sketches.
 - b) Draw a neat labelled sketch of Dog legged staircase showing various component parts and explain any four components.
 - c) Differentiate between Load Bearing and Framed Structure.
(Any six points)
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