

312338

12425

03 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) Assume suitable data, if necessary.  
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

1. Attempt any FIVE of the following : 10
- List the four tools required for dressing of stone.
  - Define particle board.
  - State any four properties of Geo-cement.
  - State the two functions of 'Lintel'.
  - Enlist any four types of bonds used in brick masonry.
  - List any four component parts of windows.
  - State any four examples of floor finishes materials.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Differentiate between load bearing structure and framed structures. (Any four)
  - b) Explain the procedure for plinth filling.
  - c) Explain any four requirements of good formwork.
  - d) Suggest suitable type of window for the following :
    - i) Cinema Hall
    - ii) Residential House
    - iii) Staircase
    - iv) Library of Hostel
- 3. Attempt any THREE of the following :** **12**
- a) Explain timbering and strutting in excavation with neat sketch.
  - b) List any four components of super structure with their function.
  - c) Explain four requirements of good foundation.
  - d) Draw labeled sketch of partly paneled and partly glazed door with frame.
- 4. Attempt any THREE of the following :** **12**
- a) Differentiate between shallow and deep foundations. (Any four)
  - b) List the various methods of dewatering and explain any one method in detail.
  - c) Explain doglegged stair with neat sketch.
  - d) List the various types of windows and explain any one type in detail.
  - e) State necessity of painting. (Any four)

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

- a) Classify the buildings as mentioned in National building code (Part III), 2005 with examples of each. (Mention any six)
- b) Describe in brief with neat sketch :
  - i) English bond
  - ii) Flemish bond
- c) Explain a different component parts of staircase with a neat labelled sketch.

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

- a) Give broad classification of construction material and explain each in detail.
  - b) Explain the various types of fibers that are used in construction. (Any three)
  - c) Explain the procedure of internal plastering a newly built brick wall.
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