

312338

23242

3 Hours / 70 Marks

Seat No. 

--	--	--	--	--	--	--	--

- 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 commonly used types of glass.
  - b) State types of building as per type of construction.
  - c) State any two purposes of plinth.
  - d) Define Cofferdam.
  - e) Give four components of door frame.
  - f) Enlist various types of windows. (any four)
  - g) Give broad classification of construction materials.
2. Attempt any THREE of the following: 12
- a) List any four special bricks with their use.
  - b) State the applications of soils as a construction materials.
  - c) Enlist the different sound insulating materials and also state their suitability.
  - d) State types and any two uses of pre cast concrete product.

P.T.O.

- 3. Attempt any THREE of the following: 12**
- a) Explain timbering and strutting in excavation with neat sketch.
  - b) Draw a neat labelled sketch of formwork for column and beam.
  - c) State the applications of geo-cement.
  - d) State any two uses of
    - i) Jute Fibers
    - ii) Coir Fibers
- 4. Attempt any THREE of the following: 12**
- a) Which type of door you would suggest for the following situation
    - i) Main entrance of a residential building.
    - ii) Bathroom and WC
    - iii) Shop
    - iv) Computer laboratory
  - b) Draw a neat sketches of any six fixtures and fasteners for doors and windows.
  - c) Give the reason for the following:
    - i) The wooden floor is provided in the auditoriums.
    - ii) For multistoreyed building, a flat roof is the only choice.
  - d) What is pointing? Explain procedure of pointing.
  - e) Enlist different types of staircase. Explain any one type with a neat sketch.

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

- a) Describe in brief with neat sketch
  - i) English bond
  - ii) Flemish bond
- b) Distinguish between brick masonry and stone masonry.
- c) Describe any eight points to be observed in the construction of stone masonry.

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

- a) State the requirements of good stair case.
  - b) Explain King post truss and Queen post truss with its suitability of each.
  - c) Draw neat sketches of any two types of Scaffolding and label the components parts.
-