

312338

25226

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) 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) List any four natural construction materials.
 - b) Define Building.
 - c) List any four component parts of super structure.
 - d) Explain shallow foundation.
 - e) Define Tread and Rise.
 - f) State four component parts of Window
 - g) List any four types of glass.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Compare load bearing and framed structure.
 - b) Explain forms of Bitumen with their use.
 - c) Explain the properties of thermal Insulating materials.
 - d) Classify the Building as mentioned in 'National Building Code' (2016) with example of each.
- 3. Attempt any THREE of the following: 12**
- a) List the various types of Bond used in Brick masonry. Explain any one.
 - b) Draw neat and labelled sketch showing component part of Scaffolding.
 - c) Explain any four properties of Geosynthetics materials and its application in construction.
 - d) Explain types of fibers with their uses.
- 4. Attempt any THREE of the following: 12**
- a) Select most suitable type of window for:
 - i) Residential Bungalow
 - ii) Cinema Hall
 - iii) School
 - iv) Enclosed R.C.C Staircase.
 - b) List the component parts of stair case.
 - c) What are different types of floor finishes.
 - d) Mention the precautions to be taken while plastering.
 - e) Explain any one type of door with suitable sketch.

5. Attempt any TWO of the following: 12

- a) Compare stone masonry construction with Brick masonry construction.
- b) Explain the requirement of good formwork.
- c) Classify the deep foundation based on materials and function.

6. Attempt any TWO of the following: 12

- a) Explain sliding window with suitable sketch.
 - b) Explain painting with respect to necessity, types and procedure.
 - c) Explain timbering and strutting with neat sketch.
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