

22304

22232

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

2 × 5 = 10

- (a) Define foundation. Give one purpose of it.
- (b) State any four points considered while preparing Job Layout for building work.
- (c) Enlist the different modes of vertical communication.
- (d) Define the terms :
 - (i) Plastering
 - (ii) Pointing
- (e) Define Frog & Write its importance.
- (f) State any two functions of Lintel.
- (g) Enlist two causes of cracks.



- 2. Attempt any THREE of the following : 12**
- (a) Explain any four requirements of good foundation.
 - (b) Enlist the requirements of good stone masonry.
 - (c) Draw a neat sketch of a dog-legged staircase.
 - (d) Differentiate between load bearing structure and R.C.C. framed structure.
- 3. Attempt any THREE of the following : 12**
- (a) Draw a neat sketch of double scaffolding showing components.
 - (b) State any four advantages of roof trusses.
 - (c) Enlist the types & causes of settlement of foundation.
 - (d) Enlist the precautions taken during the demolition of structure.
- 4. Attempt any THREE of the following : 12**
- (a) Define DPC. State it's necessity.
 - (b) Enlist the different components of building with their functions.
 - (c) Explain English bond with neat sketch.
 - (d) State the Necessity of pointing with its suitable type.
 - (e) Enlist types of floors and state their suitability.
- 5. Attempt any TWO of the following : 12**
- (a) Explain with sketch :
 - (i) Friction piles
 - (ii) End bearing pile
 - (b) Draw a neat labelled sketch of wooden form work for rectangular column in plan and isometric view.
 - (c) Draw labelled sketch of four paneled door with door frame for opening size 1200 mm × 2100 mm.
- 6. Attempt any TWO of the following : 12**
- (a) Explain Caissons foundation and well foundation with neat sketch.
 - (b) Draw any six tools required for construction of Brick Masonry with its name and uses.
 - (c) Explain a different component parts of staircase with a neat labelled sketch.
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