

22304

24225

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.

Marks

1. Attempt any FIVE of the following :

10

- (a) Enlist any two functions of foundation.
- (b) Classify Buildings as per NBC (Part III) 2005.
- (c) Draw a neat sketch of Flemish bond.
- (d) Define terms :
 - (i) Nosing
 - (ii) Head room
- (e) Define:
 - (i) Pointing
 - (ii) Plastering
- (f) Enlist four types of scaffolding.
- (g) Define :
 - (i) Sub-structure
 - (ii) Plinth

2. Attempt any THREE of the following :

12

- (a) Enlist types of settlement and state it's causes.



- (b) Differentiate between English bond and Flemish bond. (any four points)
- (c) Draw a neat sketch of any two types of foundation and state their suitability.
- (d) Describe the procedure for laying, construction and finishing of floor tiles.

3. Attempt any THREE of the following : 12

- (a) Enlist types of Buildings as per type of construction. Explain any one.
- (b) Explain types of cracks along with neat sketch.
- (c) Describe the procedure of construction of 'Well foundation' with neat sketch.
- (d) Explain Joints in stone masonry along with neat sketch.
- (e) Explain the procedure of framed structure layout by centre line method.

4. Attempt any THREE of the following : 12

- (a) Explain conventional method of waterproofing. (Brick Bat Coba Coat)
- (b) Explain any four types of 'Timbering and Strutting' with neat sketch.
- (c) Draw a neat labelled sketch of six-panelled Door showing its component parts.
- (d) Differentiate between 'Load bearing and Framed structure'. (any four points)
- (e) State requirements of good brick masonry.

5. Attempt any TWO of the following : 12

- (a) Enlist and draw a neat sketch of any six 'fixtures and fastenings' used for doors and windows.
- (b) Enlist three methods of 'Dewatering' with neat labelled sketch.
- (c) Explain the procedure of 'Double Coat Cement Plaster'.

6. Attempt any TWO of the following : 12

- (a) State any six requirements of 'Good Formwork'.
 - (b) Draw a neat sketch of any three types of windows and state suitability of each type.
 - (c) Differentiate between 'Stone masonry and Brick masonry'. (any six points)
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