12425 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 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:

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- (a) Define the terms substructure and superstructure used in building construction.
- (b) State the functions of window, sill.
- (c) State any two purposes of foundation.
- (d) Define Underpinning.
- (e) State the necessity of painting.
- (f) Define Guniting and Grouting.
- (g) State necessities of demolition.

2. Attempt any THREE of the following:

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- (a) Differentiate between load bearing structure and framed structure (any four points).
- (b) Differentiate between 'End bearing pile' and 'Frictional pile'.
- (c) Define facing, backing, hearting and through-stone.



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	(d)	Suggest suitable type of window for the following:					
		(i) Cinema hall (ii) Residential house					
		(iii) Staircase (iv) Library of hostel					
3.	Atte	mpt any THREE of the following:					
	(a)	Classify the buildings as mentioned in National Building Code (2016) with					
		example of each.					
	(b)	(b) State any four precautions to be taken while marking layout on ground.					
	(c)	Describe any eight characteristics of a good stone.					
	(d)	Enlist various fixtures and fastening for doors and windows. Draw any two of them.					
4.	Atte	mpt any THREE of the following:					
	(a)	Compare stone masonry construction with brick masonry construction.					
	(b)	Describe any four forms of 'Rubble Masonry' with sketches.					
	(c)	Draw neat sketch of fully panelled door.					
	(d)	Explain four defects in plastering with neat sketch.					
	(e)	State various causes of settlement of structure.					
5.	Atte	mpt any TWO of the following:					
	(a)						
	(b)	Describe any eight characteristics of good stone masonry.					
	(c)	Draw plan and elevation of dog legged staircase for floor to floor height of 3 m.					
6.	Atte	mpt any TWO of the following:					
	(a)	Explain timbering and strutting in excavation with neat sketch.					
	(b)	Enlist different types of shoring. Explain any one in detail.					
	(c)	Enlist different types of floor finishes. Describe the procedure of laying a					
		floor finish on a newly constructed slab.					