Wat 5010

Total No. of Questions—8]

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Seat	
No.	

[4957]-1001

S.E. (Civil) (I Sem.) EXAMINATION, 2016 BUILDING TECHNOLOGY AND MATERIALS (2012 PATTERN)

Time: Two Hours

Maximum Marks: 50

- N.B. :- (i) Answer Q. No. 1 or Q. No. 2, Q. No. 3 or Q. No. 4, Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8.
 - (ii) Neat diagrams must be drawn wherever necessary.
 - (iii) Figures to the right indicate full marks.
 - (iv) Use of calculator is allowed.
 - (v) Assume suitable data, if necessary.
- (a) Define foundation. Distinguish between shallow foundation and deep foundation with sketch.
 - (b) Write short notes on:

[6]

- (i) Formwork for trapezoidal footing
- (ii) Cavity wall construction.

Or

2. (a) Define bond. Explain strap footing.

[6]

(b) State different types of composite masonry. Explain form work for plinth beam. [6]

P.T.O.

3.	(a)	State functional requirements of flooring materials. Explain		
		lean to roof in detail. [6]		
	(<i>b</i>)	Write short notes on:		
		(i) Swing door		
		(ii) Dormer window.		
		Or		
4.	(a)	Explain with neat sketch construction of concrete flooring. Draw		
		sketch of Queen post roof truss. [6]		
	<i>(b)</i>	Explain with neat sketch: [6]		
		(i) Nar-mads		
		(ii) Pad lock		
		(iii) Springing line		
		(iv) Lintel.		
5.	(a)	Explain step by step procedure of dog-legged staircase. Give		
		sketch of dog-legged staircase. [7]		
	(<i>b</i>)	Define protective coatings. Explain defects in plastering. [6]		
		Or		
6.	(a)	State and explain ideal requirements of good stair. Explain		
		any one modern circulation mean. [7]		
	<i>(b)</i>	Explain the following with sketches: [6]		
		(i) Dots in plastering		
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		(iv) Going.		
7.	(a)	Define seasoning of timber. Explain any two methods of seasoning		
		of timber.	[6]	
	(<i>b</i>)	Write short notes on:	[7]	
		(i) Gypsum a building material		
		(ii) Building glass		
		(iii) Grean building materials.		
		Or		
8.	(a)	State the defects in timber. Explain any one in detail.	[6]	
	(<i>b</i>)	Write short notes on :	[7]	
		(i) Ecofriendly building materials		
		(ii) Ceramic product		
		(iii) Aluminium in cladding.		

Trowel

Rise

(ii)

(iii)