DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE - RAIGAD - 402 103 Semester Examination - November - 2017

Branch: B. 'Tech. (Group A / Group B) Semester			
	vith Subject Code: Basic Civil Engineering Marks (CV105) / 12 / 2017 Time: 3		
Instructions	: 1] Attempt any 5 Questions. 2] Figures / structures to the right indicate full marks. 3] Each Question Carry 12 Marks. 4] Assume suitable data, if necessary. 5] Neat diagrams must be drawn wherever necessary.		
No. 1 A)	Describe the properties of good bricks used in building construction.	(6)	
B)	What is meant by cement concrete? Explain the function of main ingredients of cement concrete.	(6)	
Q. No. 2 A)	Write a short note on bearing capacity of soil. OR	(4)	
A)	Draw a neat sketch of double shuttered panelled door and name the different parts.	(4)	
B)	Explain with neat sketch the different types of shallow foundations.	(8)	
Q. No. 3 A)	Differentiate between load bearing and framed structures.	(4)	
B)	Draw a typical plan of a residential building using the following data: (Plan can be drawn using scale or with freehand sketching showing appropriate wall thickness, sufficient number of doors and windows, and with internal room dimensions). The minimum number of rooms and their sizes mentioned in bracket can be taken as: Sit out (Verandah) - 01 (2.1m x 3m)	(8)	

		Living Room (Hall) - 01 (3.6m x 4.8m)	
		Bed Room - 02 (3m x 3.6m)	
		Kitchen - 01 (2.4m x 3m)	
		Bath Room - 02 (1.2m x 1.8m)	
		Water Closet (Toilet) - 02 (0.9m x 1.2m).	
•	Q. No. 4		
	A)	List the necessary instruments used in plane table surveying.	(4)
	B)	Define: Back Sight, Fore Sight, Change Point, and Bench Mark. OR	(8)
	B)	What are the fundamental principles of surveying? Explain briefly.	(8)
-	Q. No. 5		
	A)	Write the classification of roads according to Nagpur Road Plan.	(6)
	B)	Draw a neat sketch of a general cross-section of a road.	(6)
	Q. No. 6		
	A)	Write a short note on rain water harvesting.	(6)
	B)	Write the Indian Standard specifications for drinking water.	(6)

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