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## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## B. Tech. First Year (Semester - I) Basic Civil Engineering CV105

Time: 03 Hours Date: 07/06/2019 Max Marks: 60

## INSTRUCTIONS TO THE STUDENTS

- 1. Attempt any five questions from the given six questions. Figures to the right indicate full marks.
- 2. Illustrate your answers with neat sketches, diagrams etc. wherever necessary.
- 3. Necessary data is given in the respective questions. If such data is not given, it means that the knowledge of that data is a part of the examination.
- 4. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.
- 5. Use of logarithmic table, drawing instruments and non programmable calculators is permitted

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Q. 1	a)	List any six types of flooring.	(6)
	b)	List any six types of cements.	(6)
Q. 2	Solve any three:		(4x3)
	a)	Draw a neat sketch of under-reamed pile.	
	b)	What is the function of windows in building? Draw neat sketch of aluminum framed double shuttered glazed panel window.	
	c)	Write a short note on bearing capacity of soil.	
	d)	What are the different elements of a building?	
Q. 3	a)	Draw a king post truss.	(6)
	b)	Differentiate between load bearing and framed structures.	(6)
Q. 4	Solve any two:		(6x2)
	a)	Define: Contours, Fore Sight, Change Point, and Bench Mark.	
	b)	Draw contour lines for: (i) hill, and (ii) sloping ground surface.	
	c)	Draw a neat sketch of a 20 m chain used in survey work.	
Q. 5	a)	Draw a neat sketch of a general cross-section of a road.	(6)
	b)	Draw neat sketches for the following road signs: Speed Limit 30 kmph, Overtaking prohibited, No entry.	(6)
Q. 6	a)	What is meant by air pollution and what are its sources.	(6)
	b)	Explain: Rain water harvesting with neat sketch.	(6)
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