### undefined

# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## End Semester Examination - MAY 2019

Course: B. Tech in Civil Engineering Sem: III

Subject Name: Building Construction Subject Code: BTCVC305

Max Marks: 60 Date: 01/06/2019 Duration: 3 Hr.

### Instructions to the Students:

- 1. Solve ANY FIVE questions out of the following.
- 2. The level question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.
- 3. Use of non-programmable scientific calculators is allowed.
- 4. Assume suitable data wherever necessary and mention it clearly.

		(Level/CO)	Marks
Q. 1	Solve of the following.		12
A)	Draw the neat plan and elevation (not to scale) of the following bonds	Analysis	6
	1. English bond - One Brick thick		2
	2. English bond - One and half brick thick		2
	3. English bond - two brick thick		2
B)	Enlist the principles to be observed during construction of composite masonry?	Knowledge	6
Q.2	Solve of the following.		12
A)	Enlist the type of admixtures with functions.	Knowledge	6
B)	Describe the factors affecting to the strength of concrete?	Understand	6
Q. 3	Solve Any Two of the following.		12
A)	With neat sketch describe the technical terms used in arches?	Application	6
B)	I) Write down the difference between arches and lintels.	Analysis	4
	II) Define the primary and the secondary beam.	Remember	2
C)	I) What is the requirement of good formwork?	Knowledge	4
	II) What are the functions of lintel?	Knowledge	2
Q.4	Solve Any Two of the following.		12
A)	Plan a dog legged stair for a building with the following data	Synthesis	
	i) Vertical distance between the floors = 3.6 M		
	ii) Size of stair hall = 2.5 M X 5 M		6
	iii) Thickness of the floor slab = 140 MM		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	iv) Thickness of the waist slab and landing slab = 100 MM		
B)	What is the requirement of good staircase?	Understand	6
C)	With neat sketch describe the technical terms used in door?	Application	6



# undefined

Q. 5	Solve of the following.		12
A)	State step by step procedure to construct concrete flooring for an industrial building.	Understand	6
B)	Write down the construction details for the tile flooring.	Understand	6
Q. 6	Solve of the following.		12
A)	What are the advantages and disadvantageous of precast structure?	Remember	6
B)	Explain the concept of erection in precast building.	Understand	6

\*\*\* End \*\*\*

