

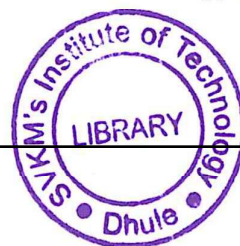
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**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**
**End Semester Examination – MAY 2019**
**Course: B. Tech in Civil Engineering**
**Sem: III**
**Subject Name: Building Construction**
**Subject Code: BTCVC305**
**Max Marks: 60**
**Date: 01/06/2019**
**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
<b>Q. 1 Solve of the following.</b>		<b>12</b>
A) Draw the neat plan and elevation (not to scale) of the following bonds	<b>Analysis</b>	<b>6</b>
1. English bond - One Brick thick		<b>2</b>
2. English bond - One and half brick thick		<b>2</b>
3. English bond - two brick thick		<b>2</b>
B) Enlist the principles to be observed during construction of composite masonry?	<b>Knowledge</b>	<b>6</b>
<b>Q.2 Solve of the following.</b>		<b>12</b>
A) Enlist the type of admixtures with functions.	<b>Knowledge</b>	<b>6</b>
B) Describe the factors affecting to the strength of concrete?	<b>Understand</b>	<b>6</b>
<b>Q. 3 Solve Any Two of the following.</b>		<b>12</b>
A) With neat sketch describe the technical terms used in arches?	<b>Application</b>	<b>6</b>
B) I) Write down the difference between arches and lintels.	<b>Analysis</b>	<b>4</b>
II) Define the primary and the secondary beam.	<b>Remember</b>	<b>2</b>
C) I) What is the requirement of good formwork?	<b>Knowledge</b>	<b>4</b>
II) What are the functions of lintel?	<b>Knowledge</b>	<b>2</b>
<b>Q.4 Solve Any Two of the following.</b>		<b>12</b>
A) Plan a dog legged stair for a building with the following data	<b>Synthesis</b>	
i) Vertical distance between the floors = 3.6 M		
ii) Size of stair hall = 2.5 M X 5 M		<b>6</b>
iii) Thickness of the floor slab = 140 MM		
iv) Thickness of the waist slab and landing slab = 100 MM		
B) What is the requirement of good staircase?	<b>Understand</b>	<b>6</b>
C) With neat sketch describe the technical terms used in door?	<b>Application</b>	<b>6</b>

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**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 disadvantages of precast structure? **Remember** 6
- B) Explain the concept of erection in precast building. **Understand** 6

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



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