

Mid Semester Examination – Sept./Oct. 2019

Course: B. Tech in Civil Engineering

Sem: I

Subject Name: Building Construction

Subject Code: BTCV 305

Max Marks: 20

Date:- 07/10/2019

Duration:- 1 Hr.

Instructions to the Students:

1. Illustrate your answers with neat sketches, diagrams etc. where ever necessary.
2. 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.
3. If some part or parameter is noticed to be missing, you may appropriately assume it and should mention it clearly.

		(Level/CO)	Marks
Q. 1	Select the appropriate answer for the given MCQ's		6 X 1
1. Which of the below should be avoided in brick masonry? a) Horizontal joints b) Queen closer c) Brick bat d) Vertical joints		C1/CO1	
2. What should be placed at the beginning of every header course in English bond to avoid vertical joint? a) Queen closer b) Half bat c) Three fourth bat d) King closer		C2/CO1	
3. What is the meaning of soundness of cement? a) Ability to flow when mixed b) Ability to make ringing noise when struck c) Ability to form strong and sound structure d) Ability to retain volume after setting.		C2/CO2	
4. What is the initial setting time of cement? a) 1 hour b) 30 minutes c) 15 minutes d) 30 hours		C1/CO1	
5. Which component of concrete gives it desired compressive strength? a) Water b) Cement c) Aggregates d) Admixture		C2/CO2	
6. Bleeding is good to an extent if it occurs when concrete is: a) Transported b) Mixed c) Plastic d) Placed		C1/CO1	

Q.2	Solve Any Two of the following.		3 X 2
(A)	What are the requirements fulfilled by partition wall.	C1/C02	
(B)	Sketch a semicircular arch showing all the terms used in arch.	C3/C01	
(C)	Explain the importance of admixture materials.	C2/C02	
Q. 3	Solve Any One of the following.		8 X 1
(A)	Explain the beam and layout such as primary, secondary and continuous beams.	C2/C03	
(B)	Explain brick lintel, reinforced concrete lintel and steel lintel with sketches	C2/C03	
	*** End ***		

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