

SC - 820

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Seat No.	
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S.Y. B. Tech. (Civil) (Semester - III) (CBCS) (Revised)
Examination, December - 2019
BUILDING CONSTRUCTION AND MATERIALS
Sub. Code : 73201

Day and Date : Tuesday, 3 - 12 - 2019

Total Marks : 70

Time : 10.00 a.m. to 1.30 p.m.

- Instructions :
- 1) Section I : Solve any three questions.
 - 2) Section II : Q. 5 & Q.6 compulsory. Solve any one question from Q.7 & Q.8.
 - 3) Figures to the right indicates full marks.
 - 4) Assume data wherever necessary & mention it neatly.

SECTION - I

- Q1) a) List out types of bricks and write specific engineering properties of each brick. [6]
- b) What are the different standard steel sections and their use in building construction? [5]
- Q2) a) Explain superstructure and their components with neat sketch. [6]
- b) List out types of shallow foundations and write suitability of each foundation. [6]
- Q3) a) Enlist various types of brick masonry. Draw any one type with suitable sketch. [6]
- b) Differentiate between Rubble masonry and Ashlar masonry. [5]
- Q4) Write short notes on the following. [3 × 4 = 12]
- a) Types and use of tiles.
 - b) Waterproofing technique and ant termite treatment.
 - c) Composite Masonry.

P.T.O.

SECTION - II

Q5) Draw sectional plan and elevation for a Teak wood glazed window, with following data. [12]

- a) Clear opening : 1500 × 1200 mm
- b) Frame size : 75 × 150 mm
- c) No. of shutters : 2 no's.

Q6) Design and draw plan and sectional elevation of open well staircase for public building for following data: [18]

- Storey height : 3.6 M
- Flight width : 1.2 M

Q7) Write short note on construction of floors. [5]

Q8) What are different types of lintel. Draw Reinforced brick Lintel. [5]

