

Roll No.

24065

**B. Tech 3rd Semester (Civil)
Examination – December, 2017
BUILDING CONSTRUCTION MATERIALS**

Paper : CE-203-F

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions. Question No. 1 is compulsory. Attempt one question from each Section.

1. (a) Need of cavity wall 5 × 4 = 20
(b) Perforated bricks
(c) Piles and piers in foundation
(d) Water proofing treatment for roof
(e) Constituents of good earth bricks

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P. T. O.

SECTION - A

2. (a) What are the general principles to be taken care of in the construction of stone masonry ? Describe neatly. 10
(b) Describe various defects in brick masonry. 10
3. How you will classify foundation. Describe each with neat sketch and give their suitability. 20

SECTION - B

4. Describe in brief various type of roof coverings for pitched roofs. Also describe construction of Mosaic floor. 20
5. Differentiate between the following with neat sketch :
 $4 \times 5 = 20$
- (a) Panelled Door and glazed Door shutter
(b) Fixed and pivot window
(c) Sliding door and rolling door shutter.
(d) Butt hinges and rising butt hinges

SECTION - C

6. What do you understand by damp-proofing course ? Explain acoustical Design of an auditorium. 20
7. Describe in detail the construction of basement to be used as a store. How will you ensure its waterproofing ? Draw a cross section with detail showing provision of D.P.C in damp soil in respect of basement. 20

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SECTION - D

8. Give characteristics of an ideal paint and different component of paint, also describe qualities of good timber. 20
9. What precaution are to be taken in the process of blasting to avoid the occurrence of an accidents. Give the qualities of good bricks and describe their classification. 20

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