

Roll No.

24065

**B. Tech. 3rd Sem. (Civil Engg.)
Examination – December, 2015**

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 : Question No. 1 is compulsory. Attempt one question from each Section. All questions carry equal marks. Assume missing data, if any, suitably.

1. Describe the following : 20
- (a) Glass block masonry
 - (b) Types of non-bearing partitions
 - (c) Basic requirements for storage of cement
 - (d) Dressing of stones
 - (e) Types of floorings
 - (f) Measurement of sound

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P. T. O.

(b) Explain step by step the method of construction of terrazzo floor. 10

SECTION - C

6. (a) What are the materials which are commonly used for damp-proofing? Describe in detail. 10

(b) Write a short note on "damp-proofing treatment in buildings". 10

7. (a) What are the factors to be considered in the acoustic design of an auditorium? Describe briefly. 10

(b) What are the causes of fire in buildings? Describe the various fire protection requirements for buildings. 10

SECTION - D

8. (a) What are the constituents of good brick earth? Explain in detail. 10

(b) Enlist various types of cement and give composition of ordinary port land cement with their functions. 10

9. Describe the following related to stones: 20

(i) Different types of terra-cotta

(ii) Seasoning of stones

(iii) Structure of timber

(iv) Bricks prepared from fly ash

(v) Different types of varnishes

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(g) Defects of dampness

(h) Geophysical methods for foundations

(i) Constituents of varnishes

(j) Difference between batten and cleat

SECTION - A

2. (a) Explain with neat diagram the constructional details of cavity wall. 10

(b) What is the difference between Rubble Masonry and Ashlar masonry? Also classify ashars masonry in detail. 10

3. (a) Explain the followings: 10

(i) Reinforced Brick Work and its suitability

(ii) Composite Stone-Brick Masonry.

(iii) Types of bonds in brickwork.

(b) What do you mean by deep foundations? Describe the classification of pile foundations in brief. 10

SECTION - B

4. (a) Briefly describe the fixtures and fastenings which are commonly used for doors and windows. 10

(b) What are the basic requirements for acoustical design of an auditorium having a balcony? 10

5. (a) What are the types of roof trusses? Explain any one in detail with neat diagram? 10

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