

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2123)

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B. Tech 3rd Semester Examination
Building Construction and Materials (N.S.)

CE-212

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, select one question from each sections A, B, C and D. Section E (Question-9) is compulsory.

SECTION - A

1. Discuss with sketches different appliances for lifting stones. State names and uses of different tools used for dressing stones. **(20)**
2. Discuss the methods of Damp Proofing for the following with sketches:
(a) Foundation (b) Ground Floor (c) Wall. **(20)**

SECTION - B

3. Discuss with sketches method of construction of
(a) Cement Concrete Flooring (b) Mosaic Flooring. **(20)**
4. Draw a neat sketch of timber door with shutter, label various parts, and draw the details of various joints. **(20)**

SECTION - C

5. Discuss different methods of quarrying of stones. State the precautions to be taken in blasting. **(20)**

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6. Discuss characteristics of First class, Second class and Third class Bricks. Also discuss Hoffman's continuous Kiln method of burning Bricks. (20)

SECTION - D

7. What are the factors affecting workability of concrete? Discuss various properties of concrete. What are the reasons for development of cracks in concrete? (20)
8. What are the various constituents of paints? State the function of each of them. What are different types of varnishes? Discuss in brief. (20)

SECTION - E

9. Answer all questions:
- (a) Effects of dampness in buildings.
 - (b) Glazed window.
 - (c) Types and uses of Terra-Cotta.
 - (d) Uses of PVC pipes in house construction. (5×4=20)