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## Third Semester B.E. Degree Examination, June/July 2019 Building Materials and Construction

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing  
ONE full question from each module.*

### Module-1

- 1 a. Enumerate the importance of good building stone. (05 Marks)  
b. Write a brief note on stabilized mud block. (05 Marks)  
c. Mention the different test conducted on bricks and explain any two test. (10 Marks)

OR

- 2 a. Enumerate the functions of good mortar. (05 Marks)  
b. Mention different types of surface finishes in stones. (05 Marks)  
c. What is fineness modulus of fine aggregate? Explain the method to determine fineness modulus of fine aggregate. (10 Marks)

### Module-2

- 3 a. What are the different types of joints in stone masonry? (05 Marks)  
b. Define : i) header ii) Lap iii) Bat iv) Frog v) Arris. (05 Marks)  
c. With neat sketch, explain combined footing and pile foundation. (10 Marks)

OR

- 4 a. Enumerate function of good foundation. (05 Marks)  
b. Mention different types of partition walls. (05 Marks)  
c. Draw the elevation of English and Flemish bond and compare English and Flemish. (10 Marks)

### Module-3

- 5 a. Highlight the important qualities of good flooring materials. (05 Marks)  
b. Discuss various modes of failures of an arch. (05 Marks)  
c. Briefly explain laying of : i) concrete flooring ii) granite flooring. (10 Marks)

OR

- 6 a. Compare flat roof and sloped roof. (05 Marks)  
b. Explain different types of lintels. (05 Marks)  
c. What are the requirements of good roof? Draw a neat sketch of king post truss and show important elements. (10 Marks)

### Module-4

- 7 a. State briefly the requirements of good staircase. (05 Marks)  
b. Discuss importance of formwork in constructional activity. (05 Marks)  
c. With neat sketch, explain importance of i) Bay window ii) Collapsible door. (10 Marks)

OR

- 8 a. Draw a neat sketch of paneled door and show important elements. (05 Marks)  
b. Discuss different types of stairs. (05 Marks)  
c. Write short notes on the following : (10 Marks)  
i) Ranking shore ii) underpinning by pit method.

**Module-5**

- 9 a. Discuss different types of plaster finishes. (05 Marks)  
b. What are the causes for the dampness in building? (05 Marks)  
c. Discuss the constituents of points and importance of the same. (10 Marks)

OR

- 10 a. Enumerate the requirements of good damp proof course. (05 Marks)  
b. What are the characteristics of ideal point? (05 Marks)  
c. Explain procedure for : (10 Marks)  
i) Painting on new iron and steel work  
ii) Lime plaster with three coats.

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