

CBCS SCHEME

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18ARC22

Second Semester B.Arch. Degree Examination, Jan./Feb. 2023 Materials & Methods in Building Construction

Time: 4 hrs.

Max. Marks: 100

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

Module-1

1 Neatly draft to scale the elevation and any 3 details of timber Queen post truss. (20 Marks)

OR

2 Draw to scale any one steel truss :

(i) 'L' angle steel truss and any one detail.

(ii) Tubular steel truss and any one detail.

(20 Marks)

Module-2

3 What is concrete? Explain the production and properties of concrete. (20 Marks)

OR

4 Explain the types and applications of cement. (20 Marks)

Module-3

5 Draft to scale the timber formwork for RCC slab, column and beam. (20 Marks)

OR

6 Draft to scale plan and section of steel grillage foundation. (20 Marks)

Module-4

7 Draft to a suitable scale double stringer timber staircase. Plan, View of any one detail. (20 Marks)

OR

8 Neatly draft to scale plan and section of a RCC waist slab staircase. (20 Marks)

Module-5

9 Draft to a suitable scale, plan, section and one detail of steel folded plate staircase. (20 Marks)

OR

10 Neatly draft the following composite staircases.

a. Brick and Stone. (10 Marks)

b. Wood and Concrete. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.