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.

Fourth Semester B.Arch. Degree Examination, June/July 2019

Materials and Methods of Building Construction - IV

Time: 4 hrs.

Max. Marks:100

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

Module-1

1 Draw a flat slab of span 6×5 m showing all the reinforcement details.

(20 Marks)

OR

2 Draw a moment frame structure of 5m × 4m useable area, showing all the reinforcement details.
(20 Marks)

Module-2

3 Explain the principles and methods of construction of a filler slab with examples. (20 Marks)

OR

Draw to a suitable scale, a waffle slab showing all the reinforcement details and formwork details.

(20 Marks)

Module-3

5 Explain steel as a building material.

(20 Marks)

OR

6 Draw the types of column and beam connections in a steel structure.

(20 Marks)

Module-4

7 Draw details of a collapsible shutter of an opening of size 2.4m × 2.4m keeping effective height of door 2.1m. (20 Marks)

OR

8 Draw to a suitable scale, plan, elevation, section and details of a steel window of size 1.2×1.5 m. (20 Marks)

Module-5

9 Explain aluminium as a building material.

(20 Marks)

OR

10 Draw to a suitable scale, plan, elevation and details of a casement Al.Window of size 1.2×1.3 m. (20 Marks)

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