

CBCS SCHEME



15ARC62

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Sixth Semester B.Arch. Degree Examination, Dec.2019/Jan.2020 Materials and Methods in Building Construction - VI

Time: 4 hrs.

Max. Marks:100

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

MODULE - 1

- 1 a. Explain briefly manufacturing of glass in various types. (10 Marks)
- b. Discuss etching of glass and its applications in building industry. (10 Marks)

OR

- 2 Design and detail a frameless shower cubical measuring 2.5m × 1.75m. Draw key plan, elevation and two important details. Assume a suitable scale. (20 Marks)

MODULE - 2

- 3 a. With the help of neat sketches, explain the concept and fixing of point supported glazing and structural cladding. (20 Marks)

OR

- 4 With neat sketch, explain the concept of fixing and fabrication details of metal cladding. (20 Marks)

MODULE - 3

- 5 Explain the concept of fixing and fabrication of factors and building envelopes. (20 Marks)

OR

- 6 Design and detail a wooden flexible partition for the living room measuring 5.5m × 9.5m to maximize view and access outdoors. Explain the scheme with the help of plan, elevation, section and important detail to suitable scale. (20 Marks)

MODULE - 4

- 7 Design and details a steel door for the show window of size 3.8 meter wide and 2.3 meter high. Explain operational mechanism with the help of plan, elevation, section and important detail to suitable scale. (20 Marks)

OR

- 8 Design and detail an aluminum sliding and folding partition for a factory shed for a width of 7.5meter and 3.2meter height. Draw layout plan of operation, elevation, section and important details to suitable scale. (20 Marks)

MODULE - 5

- 9 Explain the design and detailing of a skylight method of construction. (20 Marks)

OR

- 10 Discuss the application and advantages of PUF insulated and sandwiched panel. Explain the construction details of fixing with the help of sketch to scale. (20 Marks)

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.