

CBCS Scheme

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15ARC6.2

Sixth Semester B.Arch. Degree Examination, June/July 2018 Materials and Methods in Building Construction - VI

Time: 4 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Discuss potentials of glass as building material, highlighting its suitability in different environments. (10 Marks)
b. Compare properties and application of annealed glass, tempered glass and laminated glass. (10 Marks)

OR

- 2 Design and detail a frameless shower cubicle measuring 2 mts × 1.5 mts. Draw key plan, elevation and two important details. Assume a suitable scale. (20 Marks)

Module-2

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

OR

- 4 Design and detail the facade of a ground plus two storied commercial building using ACP cladding and glass. Draw plan, elevation and section, show important details of fixing to suitable scale. (20 Marks)

Module-3

- 5 Explain with the help of neat sketches the assembly of UPVC doors and windows. Discuss the properties of UPVC material and mention the advantages. (20 Marks)

OR

- 6 Design and detail a wooden flexible partition for the living room measuring 5 mts × 9 mts to maximize view and access outdoors. Explain the scheme with help of plan, elevation, section and important detail to suitable scale. (20 Marks)

Module-4

- 7 Design and detail a steel door for the show window of size 4 meter wide and 2.5 metre 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 metre and 3 metre height. Draw layout plan of operation, elevation, section and important detail to suitable scale. (20 Marks)

Module-5

- 9 Design and detail a skylight for an opening of 3 metre in diameter above an office atrium. Indicate the scheme in plan and section. Draw to scale two important construction details. (20 Marks)

OR

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

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