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Sixth Semester B.Arch. Degree Examination, Jan./Feb.2021 Materials & 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. Explain the terms of architectural elements of glass as a building material, highlight the glass material used in architecture in today's scenario. (10 Marks)
- b. Differentiate in between tempered glass and laminated glass and its application. (10 Marks)

OR

- 2 Design a frameless glass door for a car showroom of opening size 3600×3300mm to a suitable scale :
 - a. Plan, Elevation showing the fixture. (08 Marks)
 - b. Cross section. (04 Marks)
 - c. Any two Enlarged detail. (08 Marks)

Module-2

- 3 Illustrate with neat sketches, explain the concept and fixing details of structural glazing. (20 Marks)

OR

- 4 a. How ACP cladding has become an architectural building material in today's trend, explain with necessary sketches. (10 Marks)
- b. Draw to suitable scale for any two joinery fixing detail of ACP cladding. (10 Marks)

Module-3

- 5 a. Explain with neat sketches with necessary joinery detail of UPVC windows. (10 Marks)
- b. Sketch the joinery detail to a proportionate scale of FRP shutters fixing (any two details). (10 Marks)

OR

- 6 A living room balcony required to provide with wooden sliding and folding door for an opening of size 3600×2100, draft plan, elevation, section and any two enlarged detail with suitable scale. (20 Marks)

Module-4

- 7 Explain the principles and methods of construction for steel sliding and folding doors with necessary sketches for the same. (20 Marks)

OR

- 8 Design and detail for an aluminium partition for a car showroom office room of size 3600×2700 and to a height of 3000 mm. Draw the layout plan, elevation and section and any two detail to suitable scale. (20 Marks)

Module-5

- 9 An apartment requires a skylight roof covering for an open cut out area of size 4000×4000 design the skylight with glass covering. Draft plan, Elevation and section with two fixing detail with suitable scale. (20 Marks)

OR

- 10 a. Explain the concept and methods of using of sandwich panel walls with respect to architectural interior material. (10 Marks)
- b. Sketch the joinery details of sandwich panel walls fixing detail (any two joinery detail) (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.