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18ARC62

Sixth Semester B. Arch. Degree Examination, Dec.2024/Jan.2025 Materials and Methods in Building Construction – VI

Time: 4 hrs.

Max. Marks: 100

**Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Scale of drafting to be mentioned. Sketch should be neat and labeled.**

Module-1

- 1 a. What are the steps involved in the manufacture of glass? Explain the process. (10 Marks)
- b. What is glass fabrication? (10 Marks)

OR

- 2 To a suitable scale, draw the plan, elevation any two fixing details of a frameless glass door. Assume opening size of 3.7 m × 3.5 m. (20 Marks)

Module-2

- 3 a. Sketch and explain – stick structural glazing. (10 Marks)
- b. What is unitized structural glazing and what are its merits and demerits? (10 Marks)

OR

- 4 Explain the different types of point supported glazing with neat sketches. (20 Marks)

Module-3

- 5 a. What is PVC? What are its properties? (05 Marks)
- b. What are the advantages and disadvantages of UPVC? (05 Marks)
- c. Explain the typical FRP door with a sketch. (10 Marks)

OR

- 6 To a suitable scale draw the plan, elevation section and a detail of wooden sliding and folding door for an opening of 4000 mm × 2100 mm. (20 Marks)

Module-4

- 7 a. List the disadvantages of steel doors. (05 Marks)
- b. Sketch neatly the plan, elevation and any one detail of a steel sliding door, opening size would be 3200 mm × 2700 mm. (15 Marks)

OR

- 8 Draw to a suitable scale the plan and elevation and the view of the two doors with hinges for a two – doored Aluminium – sliding door. (20 Marks)

Module-5

- 9 a. What is the purpose of a skylight? (10 Marks)
- b. For a cutout of dimension 4000 mm × 4000 mm, draw to suitable scale the plan, elevation and a detail, of a skylight. (10 Marks)

OR

- 10 a. Write a short notes on sandwich panel walls. (10 Marks)
- b. Write a short notes on PUF panels. (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.