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Sixth Semester B.Arch. Degree Examination, June/July 2019 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 Glass fabrication techniques, Fiber reinforced composite materials and products. (10 Marks)
- b. Describe the various types of Glass available in market and its usage as an architectural material in exterior and interior. (10 Marks)

OR

- 2 A show room required frameless glass partition with glass door to the entrance of size 3700×3700 and door opening size 1500×2400 mm. To subjected scale.
 - a. Plan elevation showing the fixture and lock details. (08 Marks)
 - b. Cross section. (04 Marks)
 - c. Any two joint details. (08 Marks)

Module-2

- 3 With the help of neat sketches, explain the concepts of structural glazing and cladding. (20 Marks)

OR

- 4 a. Draw two fixing details of ACP cladding to proportionate detail sketches. (10 Marks)
- b. Explain the concept of point supported glazing in brief. (10 Marks)

Module-3

- 5 Explain with neat sketch, the assembly of PVC doors and windows. Discuss the properties of FRP materials and mention the advantages. (20 Marks)

OR

- 6 A balcony in lobby room required to be provided with wooden sliders folding door of size 2100×2100 . Draw to suitable scale.
 - a. Plan, section and elevation. (12 Marks)
 - b. Any two enlarged details. (08 Marks)

Module-4

- 7 Explain with a neat example the concept and method of constructing and detailing of MS steel garage door. Assume suitable size of opening. (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.

OR

- 8 An office room of size 5000 × 5500mm to be divided at center of room with alluminium partition with partly covered with gypsum board of glass. Draw the suitable scale.
- a. Plan, elevation and section (12 Marks)
- b. Any two joint details. (08 Marks)

Module-5

- 9 Design and detail a skylight for an opening of 3.5 meter in diameter above an office atrium. Indicate the scheme in plan and section. Draw to scale two important construction details. (20 Marks)

OR

- 10 Explain the alternative wall technology with different materials with neat sketches. (20 Marks)
