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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)**

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)**

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