CBCS SCHEME

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15ARC62

Sixth Semester B.Arch. Degree Examination, Aug./Sept.2020
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. Explain the manufacturing of various types of glass, with neat sketches. **(10 Marks)**

b. Explain the glass fabrication techniques and fiber reinforced composite material with necessary sketches. **(10 Marks)**

OR

2 Design and detail a frameless shower cubical measuring 1.80mts × 120mts. Draw the following to suitable scale:

a. Key plan and elevation **(10 Marks)**

b. Any two important detail. **(10 Marks)**

Module-2

3 a. Draw the fixing detail (any two) of aluminium louvers of openings 1000 × 600mm to suitable scale. **(10 Marks)**

b. Explain the concepts and fixing details of structural glazing with necessary sketches. **(10 Marks)**

OR

4 a. Draw the fixing details of ACP cladding to suitable scale (Any two details). **(10 Marks)**

b. Enumerate the properties and uses of ACP cladding in present architectural trend. **(10 Marks)**

Module-3

5 a. Show the joinery detail (any two) for FRP partitions to suitable scale. **(10 Marks)**

b. Show the metal cladding for facades fixing and fabrication detail (any two) to suitable scale. **(10 Marks)**

OR

6 A living room requires a wooden sliding folding door of opening of size 2400 × 2100, draw to suitable scale;

a. Plan, Elevation and Section **(12 Marks)**

b. Any two Enlarged detail. **(08 Marks)**

Module-4

7 Design and draft a MS steel door sliding, folding type of size 3.20mts × 2.70mt. Draw the following to suitable scale:

a. Plan, Elevation and Section **(12 Marks)**

b. Any two fixing detail. **(08 Marks)**

OR

8 Explain the principle and methods of construction and detailing for aluminium sliding and folding doors with necessary sketches. **(20 Marks)**

Module-5

9 Design a skylight with glass for an opening of 2.70mts in diameter in an office area. Draw the following to the suitable scale:

a. Frame work plan **(06 Marks)**
b. Elevation and section **(06 Marks)**
c. Any two fixing detail. **(08 Marks)**

OR

10 An Audio Visual Hometheatre room of size 3.00 × 4.5mts has to be treated acoustically with sandwich Panel wall for acoustics, draft the following to suitable scale:

a. Plan and wall Elevation of any one side. **(06 Marks)**
b. Cross Section. **(06 Marks)**
c. Any two Enlarged fixing detail. **(08 Marks)**

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