CBCS SCHEME

USN | | | | | | | | | | |

15ARC62

Sixth Semester B.Arch. Degree Examination, Feb./Mar. 2022
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. Draw neat labeled module sketches.

Module-1

1 a. Explain manufacturing process of glass. **(08 Marks)**

b. Describe properties and uses of following types of glass:
i) Float glass
ii) Bullet proof glass
iii) Mirrors. **(12 Marks)**

OR

2 Design and detail a frameless shower cubicle 2mts × 2mts. Draw key plan, elevation and two important details. Assume a suitable scale. **(20 Marks)**

Module-2

3 What is structural glazing? Explain important fixing details with the help of neat sketches. **(20 Marks)**

OR

4 a. Draw two fixing details of louvered cladding to proportionate detail sketches. **(10 Marks)**

b. Explain with the help of neat sketches types of point supported glazing. **(10 Marks)**

Module-3

5 Draw UPVC window of size-1200 × 1200mm

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

b. Any two enlarged details **(08 Marks)**
Draw to a suitable scale.

OR

6 A lobby room has to be provided with a wooden sliding folding door of size 2400 × 2100. Draw to suitable scale

a. Plan, section and elevation **(12 Marks)**

b. Any two enlarged details. **(08 Marks)**

Module-4

7 Draw M.S. steel garage door for an opening of size 3000 × 2400. Draw to suitable scale:

a. Plan, elevation **(08 Marks)**

b. Section **(06 Marks)**

c. Any two joinery detail. **(06 Marks)**

OR

8 Explain with neat example the concept and method of constructing and detailing of Aluminum partition. Assume suitable size of opening. **(20 Marks)**

Module-5

9 Design and detail a sloped skylight over an opening of 2.5m × 2.5m above an office atrium. Indicate the scheme in plan and section. Draw to scale two important construction details. **(20 Marks)**

OR

10 Explain sandwich panels as alternative wall technology material, on basis of its composition, properties and uses with the help of neat sketches. **(20 Marks)**

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