CBCS Scheme

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

15ARC6.2

Sixth Semester B.Arch. Degree Examination, June/July 2018
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. Discuss potentials of glass as building material, highlighting its suitability in different environments. **(10 Marks)**

b. Compare properties and application of annealed glass, tempered glass and laminated glass. **(10 Marks)**

OR

2 Design and detail a frameless shower cubicle measuring 2 mts × 1.5 mts. Draw key plan, elevation and two important details. Assume a suitable scale. **(20 Marks)**

Module-2

3 With help of neat sketches, explain the concepts and fixing details of structural glazing and point supported glazing. **(20 Marks)**

OR

4 Design and detail the facade of a ground plus two storied commercial building using ACP cladding and glass. Draw plan, elevation and section, show important details of fixing to suitable scale. **(20 Marks)**

Module-3

5 Explain with the help of neat sketches the assembly of UPVC doors and windows. Discuss the properties of UPVC material and mention the advantages. **(20 Marks)**

OR

6 Design and detail a wooden flexible partition for the living room measuring 5 mts × 9 mts to maximize view and access outdoors. Explain the scheme with help of plan, elevation, section and important detail to suitable scale. **(20 Marks)**

Module-4

7 Design and detail a steel door for the show window of size 4 meter wide and 2.5 metre high. Explain operational mechanism with the help of plan, elevation, section and important detail to suitable scale. **(20 Marks)**

OR

8 Design and detail an aluminum sliding and folding partition for a factory shed for a width of 7 metre and 3 metre height. Draw layout plan of operation, elevation, section and important detail to suitable scale. **(20 Marks)**

Module-5

9 Design and detail a skylight for an opening of 3 metre in diameter above an office atrium. Indicate the scheme in plan and section. Draw to scale two important construction details. **(20 Marks)**

OR

10 Discuss the application and advantages of PUF insulated and sandwiched panel. Explain the construction details of fixing with help of sketches to scale. **(20 Marks)**

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