



CBCS SCHEME

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15ARC62

Sixth Semester B.Arch. Degree Examination, July/August 2021 Materials and Methods in Building Construction – VI

Time: 4 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 Explain the different types of glass available in market, and its implication as an architectural material for both interior and exterior. (20 Marks)
- 2 Design and draft a frameless glass partition for an office board room with tinted glass finish of size of room 3000 × 4500mm and to a height of 3000mm. Draft key plan, elevation, section and any two fixing detail to suitable scale. (20 Marks)
- 3 Draft the structural glazing cladding for a commercial mall of opening size 6000mm in length and 6000mm in height. Draft the following to suitable scale.
 - i) Plan of the glazing (04 Marks)
 - ii) Elevation and section (06 Marks)
 - iii) Glass fitting with two necessary joinery detail. (10 Marks)
- 4
 - a. Show any two detail of ACP cladding to suitable scale. (10 Marks)
 - b. Show the fixing detail (any two) of aluminum louvers to suitable scale. (10 Marks)
- 5
 - a. Show the frame work and any two joinery detail of metal cladding for facades with suitable scale. (10 Marks)
 - b. Show the fixing detail of PVC doors of any two joinery detail with suitable scale. (10 Marks)
- 6 Explain the concept and principles and methods of wooden sliding and folding door with detailed necessary sketches for it. (20 Marks)
- 7 Design and draft a MS garage sliding and folding door of size 3000 × 2700mm. Draw plan, elevation and section and any two Enlarged detail to suitable scale. (20 Marks)
- 8 Explain with neat sketches of aluminium sliding and folding doors – principles and methods of construction and its detailing. (20 Marks)
- 9 Design and detail of skylight for an opening of 3000 × 3000mm in above an office atrium. Show schematic plan. Section and two important construction detail to suitable scale. (20 Marks)
- 10 Explain the advantages and its applications of Puf panels and sandwich panels with sketches of construction details and fixing details. (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.