CBCS SCHEME

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

18ARC62

Sixth Semester B.Arch. Degree Examination, June / July 2026
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 Write short notes on :
- a. Glass Etching **(04 Marks)**
- b. Tinted Glass **(04 Marks)**
- c. Glass Murals **(04 Marks)**
- d. Toughened Glass **(04 Marks)**
- e. Glass Block. **(04 Marks)**

OR

2 Draw following details in frameless glass door :
- a. Plan **(05 Marks)**
- b. Elevation **(05 Marks)**
- c. Section **(05 Marks)**
- d. Any one detail. **(05 Marks)**

Module-2

3 Design a structural glazing for a building façade of size 8m (width) × 7.2m (height) showing following details :
- a. Plan **(07 Marks)**
- b. Evaluation **(07 Marks)**
- c. Section **(06 Marks)**

Assume suitable scale.

OR

4 Explain with neat sketches :
- a. Curtain wall system **(10 Marks)**
- b. ACP Cladding. **(10 Marks)**

Module-3

5
- a. What is the advantage of UPVC over PVC? **(10 Marks)**
- b. What is FRP? What are its uses in the building industry? **(10 Marks)**

OR

6 Design wood and glass sliding door for a 3M wide opening between a living room and verandah. Draft full plan, elevation and section along with two details to an appropriate scale. Assume floor to ceiling opening height of 3.5M. **(20 Marks)**

Module-4

7 Design a aluminum and glass partition for an office. Draft full plan elevation and section to an appropriate scale along with two details to an enlarged scale. Assume standard room dimensions and heights. **(20 Marks)**

OR

8 a. Detail out the advantages of steel and aluminum in the construction sector. **(10 Marks)**

b. Do you think these materials are environment friendly? Give valid arguments. **(10 Marks)**

Module-5

9 a. What is the purpose of a skylight? **(10 Marks)**

b. For a cutout of dimension 4000 mm × 4000 mm, draw to suitable scale the plan, elevation and a detail, of a skylight. **(10 Marks)**

OR

10 a. Write a short notes on sandwich panel walls. **(10 Marks)**

b. Write a short notes on PUF panels. **(10 Marks)**

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