



CBCS SCHEME

USN

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

18ARC62

Sixth Semester B.Arch. Degree Examination, Dec.2025/Jan.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 Draw following details of UPVC sliding window of size 1.5m × 1.35m.
- a. Plan (07 Marks)
 - b. Elevation (07 Marks)
 - c. Section (06 Marks)
- Assume suitable scale.

OR

- 6 Draw following details of Wooden Bypass Sliding door of size $2\text{m} \times 2.1\text{m}$. Assume suitable scale.
- a. Plan (06 Marks)
 - b. Elevation (06 Marks)
 - c. Section (06 Marks)
 - d. Any one detail. (02 Marks)

Module-4

- 7 Draw Plan, Elevation and Section of Aluminum Partition of size $6\text{m} \times 3\text{m}$. Assume suitable scale. (20 Marks)

OR

- 8 Draw following with neat sketches :
- a. Steel Partitions (10 Marks)
 - b. Aluminium Partitions. (10 Marks)

Module-5

- 9 Draw following details of skylight of size $2\text{m} \times 2\text{m}$ using steel and glass.
- a. Plan (08 Marks)
 - b. Section (08 Marks)
 - c. Any 1 detail. (04 Marks)

OR

- 10 Explain with sketches :
- a. Sandwich panel walls (10 Marks)
 - b. PUF panels. (10 Marks)

* * * * *