

CBCS SCHEME

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18ARC62

Sixth Semester B.Arch. Degree Examination, July/August 2022 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. Explain Flat Glass Manufacturing process step by step with the help of sketches. (10 Marks)
b. Explain the following with their application as a building material :
i) Tinted glass
ii) Reinforced glass
iii) Laminated glass
iv) Fiber glass
v) Etching of glass. (10 Marks)

OR

- 2 An administrative officer cabin requires a full frameless glass partition with the openable glass door also as a part of it. Length of the opening size for glass partition is 4725mm and height is 3150mm. Door opening size is 1500 × 2500mm. In a appropriate scale you need to draw :
a. Plan and elevation (08 Marks)
b. Cross section (04 Marks)
c. Any two joinery details. (08 Marks)

Module-2

- 3 State the difference between structural Glazing and point supported glazing. With the help of neat sketches, explain the concepts of fixing and fabrication in point supported glazing. (20 Marks)

OR

- 4 a. Explain various advantages and disadvantages of ACP and aluminum louvers as a building material. (10 Marks)
b. Draw any two fixing or fabrication details of ACP clacking in an interior wall. (10 Marks)

Module-3

- 5 With the help of neat sketches wherever required explain the characteristics and various applications of UPVC and PVC as building materials. (20 Marks)

OR

- 6 A bedroom with attached courtyard required to be provided with wooden sliding and folding doors to cover the opening of 3150 × 2100mm choose suitable scale to draw :
a. Plan, elevation and section (12 Marks)
b. Any two enlarged details. (08 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.

Module-4

- 7 With the help of neat sketches explain the principles and methods of construction and detailing of MS steel sliding door to be installed at house main entrance with enough space to let a car inside for parking. Assume size accordingly. (20 Marks)

OR

- 8 Accounts office of size 4500 × 6750mm in an institutional building to be divided into four parts to create Cabius for employees. The partition will be done in aluminous with these of gypsum board and glass.
- a. Plan, elevation and section (12 Marks)
- b. Any two important joinery details. (08 Marks)

Module-5

- 9 With the help of neat sketches explain any five alternate wall technologies used in architecture. (20 Marks)

OR

- 10 State the advantages of skylight over normal wall windows and also show different types of skylight we can provide in a building with the help of sketches. (20 Marks)

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