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Sixth Semester B. Arch Degree Examination, Dec.2018/Jan.2019 Materials and Methods in Building Construction - VI

Time: 4 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Explain the manufacturing process of Glass. (08 Marks)
 b. Describe the various types of glasses available in market and its usage as an architectural material in exterior and interior. (12 Marks)

OR

- 2 A show room required frameless glass partition with glass door to the centre of the entrance of size 3500 × 3600 and door opening size 1500 × 2400mm. To subjected scale
- a. Plan, elevation showing the fixture and locking detail (08 Marks)
 b. Cross section (04 Marks)
 c. Any two joinery detail. (08 Marks)

Module-2

- 3 a. Sketch the fixing detail of structural glazing fixtures. (10 Marks)
 b. Explain the properties and uses of ACP cladding at present architectural trend. (10 Marks)

OR

- 4 a. Draw two fixing details of ACP cladding to proportionate detail sketch. (10 Marks)
 b. Draw the fixing detail of aluminum lowers of opening 1200 × 600mm to proportionate sketch. (10 Marks)

Module-3

- 5 Draft the UPVC windows of size 1500×1350
- a. Plan, elevation and section – Scale -1:20 (12 Marks)
 b. Two Enlarged joinery – Scale 1 :2
 Detail view. (08 Marks)

OR

- 6 A balcony required in living room required to be provided with wooden sliding folding door of size 2000×2100. Draw to suitable scale.
- a. Plan, elevation and section (12 Marks)
 b. Any two enlarged detail. (08 Marks)

Module-4

- 7 Draft MS steel garage door for an opening of size 3600 × 2400. Draw to suitable scale.
- a. Plan, elevation (08 Marks)
 b. Section (06 Marks)
 c. Any two joinery detail (06 Marks)

OR

- 8 An office room of size 600 × 6500mm to be divided at centre of room with aluminum partition with partly covered with gypsum board of glass. Draw the following to suitable scale.
- a. Plan, elevation (08 Marks)
 - b. Section (06 Marks)
 - c. Any two joinery detail (06 Marks)

Module-5

- 9 A living room with double height roof required to be provided with skylight roof covering of size 2500 × 2500. Draft the following :
- a. Plan Scale - 1 : 10 (06 Marks)
 - b. Cross section Scale - 1 : 10 (06 Marks)
 - c. Two enlarged detail Scale - 1 : 2 or 1 : 5 (08 Marks)

OR

- 10 A home theatre room of size 400 × 600mm has to be acoustically treated with sandwich panel wall for acoustics draft the following to suitable scale.
- a. Plan and wall elevation of any one side (08 Marks)
 - b. Cross section (04 Marks)
 - c. Two enlarged joinery detail. (08 Marks)