

Roll No.

Total No. of Pages : 01

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B.Arch. (Sem.-4)
BUILDING CONSTRUCTION & MATERIALS-IV
Subject Code : AR-224
M.Code : 45028

Time : 4 Hrs.

Max. Marks : 70

INSTRUCTION TO CANDIDATES :

1. Attempt TWO questions from unit-I and TWO questions from Unit-II.
2. Assume the data missing if any.

UNIT-I

1. Explain the process of fixing of corrugated G.I. cement sheets as covering material for an inclined roof? (10)
2. What are the various types of timber floors for timber? (10)
3. What are the various applications of thermoplastics in building? What are the properties of HDPE? (10)

UNIT-II

4. Design a timber sliding door to be provided for a 3m wide opening for an industrial store. Draw to a suitable scale, the construction details of the door. (25)
5. Design the timber paneling for an office area of size 4.2m \times 3.5m, giving all the construction details necessary to explain your design for the paneling. (25)
6.
 - a) Explain with sketches, the construction detail of gutter, eaves and ridge of a kingpost truss. (15)
 - b) Explain the Dhajji wall construction with the help of neat sketches. (10)
7. A hall of size 5m \times 10m is to be provided with a lean to roof. Design the roof and draw the roof plan, sectional elevation & other details to explain the roofing system. (25)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.