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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 FOUR questions in total, selecting TWO questions from each unit.
2. Assume data wherever necessary.
3. Choose suitable scale for drawings.

UNIT-I

1. For a mezzanine floor of 3mt \times 6mt. suggest a suitable timber flooring design. Explain your scheme by sketching any two details along with plan of mezzanine floor showing various floor members. 10
2. What are the plastics? How they are classified? Enlist their advantages and disadvantages. 10
3. Write short notes on **Any Two** of the following :
 - a) CGI roof covering 5
 - b) Laying of Mangalore tiles 5
 - c) Properties of clay tiles 5

UNIT II

4. Draw a part elevation, plan of 9 meter span built up truss to be covered with AC sheets roofing. Draw details of fixing a truss to the support and AC sheet roof covering. 25
5. A hall of size $5\text{m} \times 8\text{m}$ is to be provided with officer's cabin $2.5\text{m} \times 4\text{m}$ in one corner with the help of 2.1m high wooden glazed partition wall. Design and draw plan, elevation & section (scale 1:50) and other details for the same using teak wood members, prelaminated board and glass. 25

6. Opening $1.2 \text{ m} \times 2 \text{ m}$ between lobby and the bed room of a house is to be provided with a sliding door. Design and draw the elevation, section and plan of the same showing various fixing details at top and bottom of the door. 25
7. Draw details to illustrate **Any Four** of the following : 25
- a) Various types of sloping roofs
 - b) Queen post truss
 - c) Timber floor finishes
 - d) Sliding and folding Door
 - e) Dhajji Wall construction

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.