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B.Arch. (Sem.-2) BUILDING CONSTRUCTION & MATERIAL-II Subject Code : AR-124 M.Code : 45011

Time : 4 Hrs.

Max. Marks : 70

(7)

INSTRUCTION TO CANDIDATES :

1. Attempt TWO questions from Unit-I and TWO questions from Unit-II.

UNIT-I

1. Answer the following

a. Differentiate between hardwood and softwood	(3)
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- b. Describe the process of seasoning of timber
- 2. List various types of paints and their properties. Also, write about the applications of these paints. (5,5)
- 3. List down all possible water proofing materials and process of application. Support your answer with neat sketches showing the placement and thickness of their water proofing material. (6,4)

UNIT-II

- 4. A room of $3.0\text{mt} \times 5.0\text{mt}$ of height 3.0mt has a window opening on the longer face. The opening is 1.5mt wide and 1.5mt in height. Design a window that is partially fixed, and partially casement, for this opening. Draw plan, section, elevation (scale 1:20) of the window, showing its details (scale 1:5). (25)
- 5. Draw plan and section of an isolated footing (scale 1:20) for an RCC column of 0.45mt $\times 0.75$ mt size. Draw details (1:5) of the same showing reinforcement, the material specifications, including DPC. (25)
- 6. A passageway has an opening of $1.8\text{mt} \times 2.1\text{mt}$. There is a plinth of 15cm protruding 30cm from the wall opening. Design a door system that allows ventilation at certain times of the day and allows safety using solid door. Draw plan, section, elevation (scale 1:20) of the door including details (1:5) at junctions of door shutter and frame. (25)
- 7. Draw details of various types of flat roof constructions. Also highlight insulation strategies for roofs. (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.

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