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B. Arch.

(SEM. IV) THEORY EXAMINATION, 2014-15
CONSTRUCTION AND MATERIALS - IV

Time : **3** Hours]   [Total Marks : **50**

Notes :   (1)   Answer Four questions, of which question no. 1 is compulsory.

             (2)   Dimensions and Labeling should be done in all drawings.

             (3)   Use an appropriate scale for drawing.

             (4)   Assume any missing data.

1   A room of size 3000 mm × 5000 mm and 3000 mm   **20** height is to be panelled from inside. It has one door 1000 × 2100 mm and one window 1200 × 1200 mm. Present your scheme with all relevant plans, elevations and sections and isometric of two fixing/ joinery details. Choice of material should be judicious.

OR

1   A sloping triple roof is proposed over a room of   **20** size 6.5 m and 4.0 m high. Present your scheme with all relevant plans, elevations and sections and isometric of two fixing/joinery details. Choice of material should be judicious.

2   Attempt any two of the following. Support your   **10** answer with neat sketches :

    (a)   What is a double roof? Discuss its various forms in brief.

    (b)   Discuss the laying process of 'Allahabad tiles' on a roof.

    (c)   What is veneer? How it is manufactured ?

3   Differentiate between the following. Support your   **10** answer with neat sketches. Attempt any two :

    (a)   Plywood and Veneer.

    (b)   Cement Fibre-Board and Medium density Fibre-Board

    (c)   Allahabad Tiles and Mangalore Tiles.

    (d)   Galvanized Iron sheets Plain and Corrugated.

    (e)   Natural Adhesive and Urea Formaldehyde.

4   Attempt any two :   10

    (a)   Sliding Door

    (b)   Revolving Door.

    (c)   Wall Plates.

    (d)   Spars and Purlins

5   Attempt any two of the following. Support your   10
    answer with neat sketches :

    (a)   What is a sliding folding door? Discuss its various types.

    (b)   Discuss the installation process of timber partition in a hall.

    (c)   What is natural adhesive? How it is manufactured?

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