

Printed Pages : 2



AR402(MTU)

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 181404

Roll No.

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B. Arch.

(SEM. IV) THEORY EXAMINATION, 2014-15
CONSTRUCTION & 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 partition of size 4000 mm wide and 3000 mm high 20
(without door) is proposed between two faculty rooms.
Present your scheme with all relevant plans, elevations,
sections and isometric of two fixing / joinery details.
Choice of material should be judicious.

- 2** Attempt **any two** of the following. Support your answer with neat sketches. **10**
- (a) What is panelling? Propose at least two materials which shall be specified for it and why?
 - (b) What is Ply board? How it is manufactured ?
 - (c) Discuss the laying process of Asbestos cement sheet on a roof.
- 3** Differentiate between the following. Support your answer with neat sketches. Attempt **any two** : **10**
- (a) Fiber board and Block board.
 - (b) Thermo plastic adhesives and Thermo setting adhesives.
 - (c) Lean-to roof and Double lean-to roof.
 - (d) Veneers and Laminates.
 - (e) Hip rafter and Valley rafter.
- 4** Attempt **any two** **10**
- (a) Ply Wood & veneers.
 - (b) Purlins for Clay Tiles.
 - (c) Trussed rafter roof.
 - (d) Cladding.
- 5** Explain the role of temporary timbering in construction. **10**
Discuss in detail with the help of neat sketches of flying and needle shoring.