

Total No. of Questions : 4]

SEAT No. :

P1567

[Total No. of Pages : 2

[4962] - 2001

F.Y.B. (Arch)

BUILDING TECHNOLOGY & MATERIALS - II

(2015 Pattern) (Semester - II)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates :-

- 1) Answers to Section I should be given on drawing sheets only.*
- 2) Answers to Section II should be given on answer sheets only.*
- 3) All questions are compulsory.*
- 4) Draw neat sketches wherever necessary.*
- 5) Figures to the right of each question indicate full marks.*
- 6) Assume suitable data wherever necessary.*

SECTION - I

Q1) a) Draw plan elevation and section through a casement window of size 1.80 m × 1.20 m at 1:10 and details at 1:5. **[20]**

OR

- b) A room of size 5.0m × 9.0 internal dimension needs a king post truss roofing. Draw key plan at 1:100 and elevation and details of king post truss at 1:20 and 1:10 respectively

Q2) Draw neat sketches on drawing sheets (any three) **[15]**

- a) Section through closed Couple roof.
- b) Any three types of joints in floor boards.
- c) Section showing details through three consecutive treads and liser giving nomenclature.
- d) Joinery details between lock tail and style with wooden panel.
- e) Sketches showing different types of reinforcement used in 350 mm thick brick masonry wall.

P.T.O.

SECTION - II

Q3) Answer any two of following. **[20]**

- a) Fixing details of ridge and eaves sides of a Mangalore tile roofing.
- b) Explain with sketches lean to roof.
- c) Any four carpentary tools with sketch and their uses.

Q4) Write short notes on (any three) **[15]**

- a) Different types of reinforcement in brick piers
- b) Different types of hardware fillings used in doors and windows.(any three)
- c) Block boards.
- d) Brick vaults.
- e) Two types of strutting in floors.

