

Total No. of Questions : 3]

SEAT No. :

P914

[Total No. of Pages : 2

[5257] - 5001

T.Y. B.Arch.

BUILDING, TECHNOLOGY & MATERIALS - V

(2015 Pattern)

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:-

- 1) Answers to Section - I & Section - II should be written in separate books.
- 2) Use drawing sheets for section - I and answer sheets for section - II.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right indicate full marks.
- 5) Assume suitable data, if necessary.

SECTION - I

Q1) Paneling is to be provided for two adjacent wall of a board room of size 4 m × 4 m and height 3m. with window opening of size 1.8 M × 1.2 M (HT) and cill level of 0.9 M

Draw a plan of paneling to the scale of 1:10. [10]

Draw elevation and section through paneling to the scale of 1:10. [10]

Draw paneling details at window cill level & paneling meeting at the corner of room. [10]

OR

An office of size 6.0 m × 4.0 m is to be provided with a framed and paneled false ceiling system.

Draw a reflected ceiling plan at 1:20 scale showing framing system and light positions. [10]

Draw a section at 1:20 scale through false ceiling. [10]

Draw details of panel fixing and light fixing to suitable scale. [10]

P.T.O.

Q2) Draw sketches of **any 1** of the following : **[10]**

- a) Draw any two joinery details for show case constructed in plywood.
- b) Draw joinery details of
 - i) Frame and leg
 - ii) Fixing of top,
For a dining table constructed in teakwood.
- c) Draw any two alternatives for shelf fixing in a shoe rack unit.

SECTION - II

Q3) Write short notes **Any 5** of the following with illustrative sketches wherever necessary : **[30]**

- a) Form active structures.
- b) Pre tensioning and post tensioning.
- c) Any two types of pneumatic structures.
- d) Process of application paint to new wood work
- e) MDF and plywood
- f) Any two types of portal frames.
- g) Paint and Polish
- h) Ribbed slab and waffle slab

