



Building Design & Drawing (1090)

P. Pages : 3

Time : Four Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Answer to first **two** questions should be written on ruled book and questions **three** and **four** on drawing sheet.
6. Figures to the right indicate full marks.
7. Assume additional suitable data, if necessary.

UNIT - I

1. a) List types of building as per occupancy and Explain principles of planning of building in detail. **10**
b) Explain building line and control line, built up area, with suitable examples. **10**
c) Explain **10**
i) Ventilation and air conditioning of building.
ii) Fire resistant construction of wall.

UNIT - II

2. a) Explain Thermal and Sound insulation of building in detail. **10**
b) Explain one pipe and two pipe systems of plumbing with neat sketches. **10**
c) Explain. **10**
i) Acoustics for various types of building.
ii) Natural and artificial Lighting.

UNIT - III

3. Design a residential building according to plot size (12 m x 16 m) with 1 : 50 scale. **15**
- i) Detail plan showing column position.
- ii) Detail Elevation. **10**
- iii) Site Plan **5**

UNIT - IV

4. a) Draw a library for general college building. Total intake of college is 300 seats. Draw to scale of 1 : 100 **10**
- i) Detailed plan (framed structure)
- ii) Front Elevation. **5**
- iii) Furniture arrangement. **5**
- b) Fig shows a plan of entrance steps one side of which is inclined at an angle of 30° to the picture plane and touches the same at A The observer is standing at a distance of 2 m along the central visual ray. Assuming eye level of 1.5 m above G. L. Draw the two point perspective view to scale of 1 : 20. Retain all construction lines. **10**

