

Seat
No.

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मजल - 016

Building Design & Drawing (1090)

P. Pages : 2

Time : Four Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet 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. Answers to **first two** questions should be written on ruled book and questions three and four on drawing sheet.
6. Neat diagrams must be drawn wherever necessary.
7. Figures to the right indicate full marks.
8. Assume suitable data if necessary.

UNIT - I

1. Attempt **any two**.
 - a) What are the types of buildings, list principles of planning of building and explain any one in detail. **10**
 - b) Explain about building line, control line and marginal distances. **10**
 - c) Explain : **10**
 - i) Systems of ventilation.
 - ii) Fire safety.

UNIT - II

2. Attempt **any two**
 - a) Explain Thermal comfort and heat exchange in detail. **10**
 - b) Explain natural and artificial lighting in detail with example. **10**
 - c) Explain : **10**
 - i) Importance of building services.
 - ii) Types of noise and its control.

UNIT - III

3. Design a frame structure residential building according to plot size (12m x 18m) with 1:50 scale.
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|---|----|
| i) Detail Plan. | 10 |
| ii) Sectional elevation. | 15 |
| iii) Furniture arrangement of bed room. | 5 |

UNIT - IV

4. a) Design a secondary school building with suitable sizes of rooms and position of doors and windows.
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| i) Draw Line plan. | 10 |
| ii) Schedule of openings. | 3 |
| iii) Built up Area. | 3 |
| iv) Furniture arrangement of class room. | 4 |
- b) The plan showing small structure, Draw two point perspective to a suitable scale and showing important parts and dimensions. (Ref. Fig. no.1) 10


