17309

11718

4 Hours / 100 Marks Seat No. | | | | | | | | |

Instructions – (1) All Questions are *Compulsory.*

(2) Answer each next main Question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

(4) Figures to the right indicate full marks.

(5) Assume suitable data, if necessary.

(6) Use of Non-programmable Electronic Pocket Calculator is permissible.

(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

(8) Preferably write the answers in sequential order.

Marks

1. a) **Attempt any <u>THREE</u> of the following:** **12**

(i) Draw graphical symbols for following as per IS 968-1989.

1) Concrete

2) Woodwork

3) Wash basin

4) Glass

(ii) List any four types of line with sketch.

(iii) Define:

1) Roominess

2) Privacy

Marks

(iv) State the minimum dimensions for,

1) Kitchen

2) Garage

3) Bathroom with attached w.c.

4) Bed room

b) Draw a line plan to a suitable scale for single storeyed bank building. Built up area is limited to 200 m^2. **8**

2. Refer Figure No. 1 shows a line plan of residential building. Draw to a scale of 1 : 50 the following views. Show all dimensions and label the parts.

a) Developed plan 12

b) Elevation 6

c) Section along AD 10

Use following construction note:

(i) Depth of foundation 1200 mm below G.L.

(ii) Plinth height above G.L. - 600 mm

(iii) Height of bottom of slab from floor level - 3200 mm

(iv) Slab thickness - 125 mm

(v) Chajja projection - 450 mm

(vi) Superstructure in B.B. masonry with all walls 300 mm thick and internal walls of bath and WC 100 mm thick.

Assume suitable data if required.

Marks

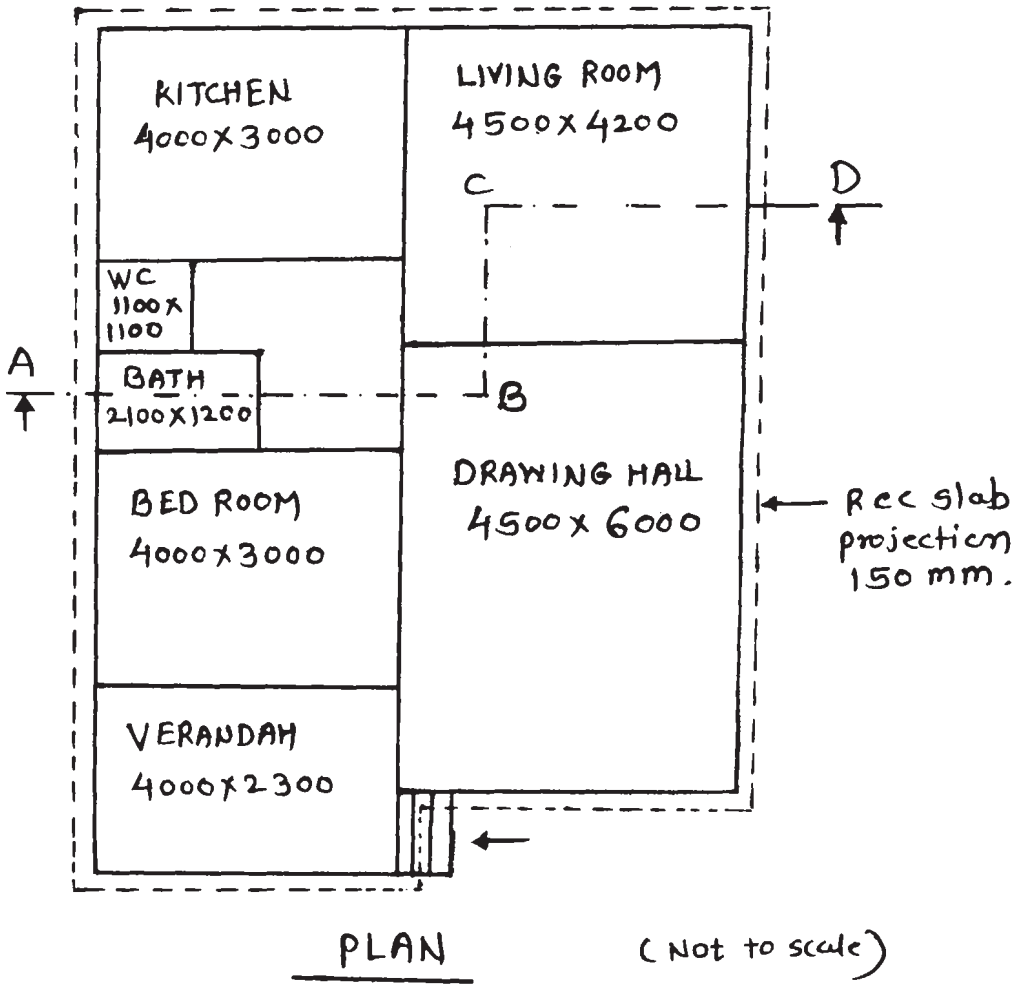


Fig No. 1

3. Attempt any THREE of the following: **24**

a) Prepare schedule of opening and area statement for question No. 2

b) Draw to a suitable scale site plan for the building mentioned in question No. 2 (Figure No. 1) The plot size is 15 m × 20 m. The road is parallel to 15 m side of the plot.

c) Explain any four principles of planning.

d) (i) Write dimensions of rise and tread for residential and public building.

(ii) Define station point and vanishing point in perspective drawing.

Marks

4. Attempt any TWO of the following: **16**

a) Define orientation of building:
'It is very difficult to get proper orientation for all flats in a Apartment' comment on this statement.

b) Define following:

(i) Plot area

(ii) Built up area

(iii) Super built up area

(iv) Plinth area

c) Draw detailed plan and section of RCC column and column footing with following data:

(i) Size of footing 1500 × 1500 mm

(ii) Size of column 300 × 300 mm

Marks

5. Draw the two point perspective view of small object shown in Figure No. 2 Retain all construction lines. Take eye level at 1.50 m above GL. **12**

All dimensions are in mm

Assume any data if required

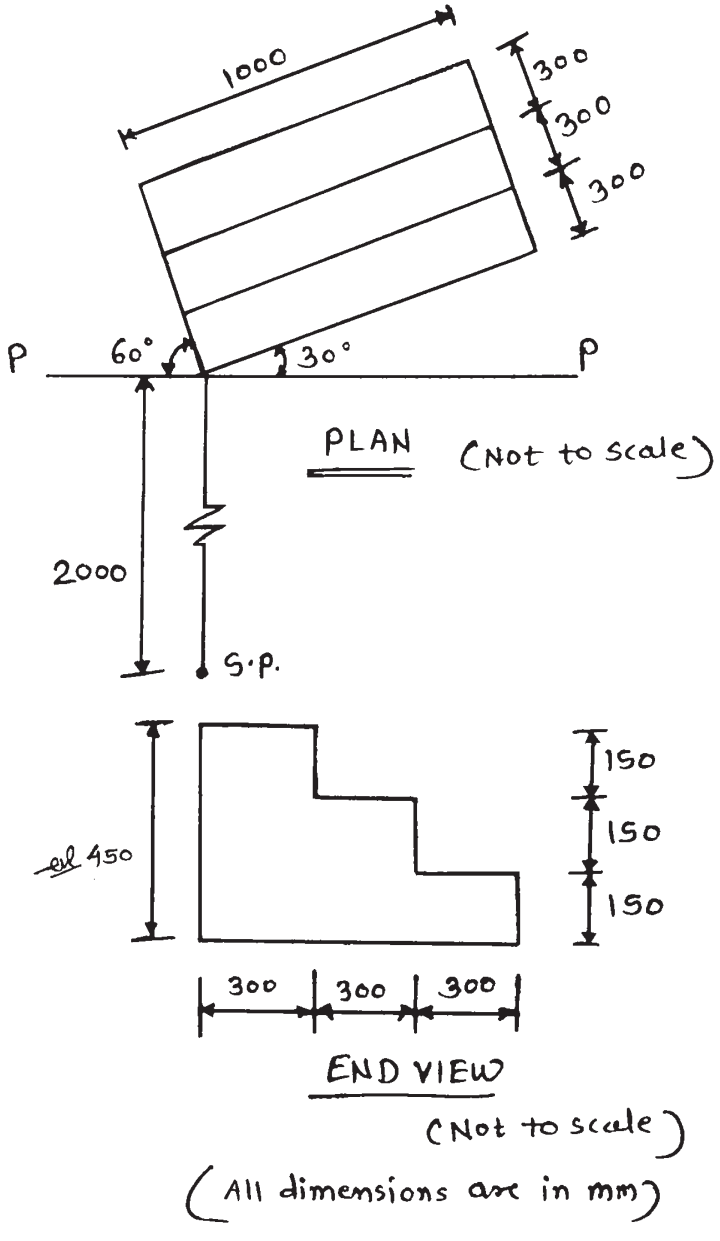
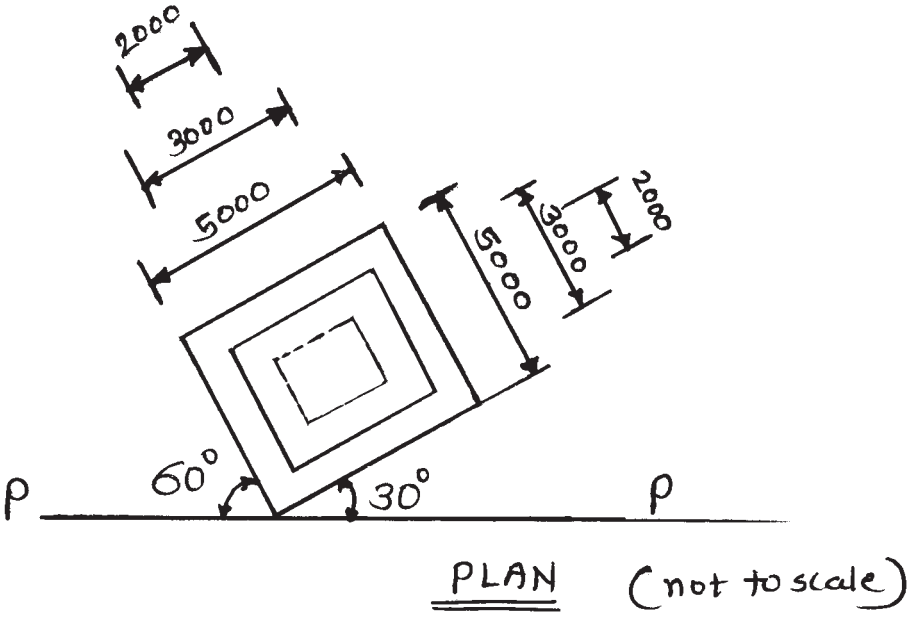


Fig No. 2

OR

Marks

Draw to a suitable sale two point perspective drawing. Assume eye level at 2.1 m above GL. The observer stands at a distance 4.7 m along central visual ray. Retain all construction lines. Assume additional data if required Refer Figure No. 3. **12**



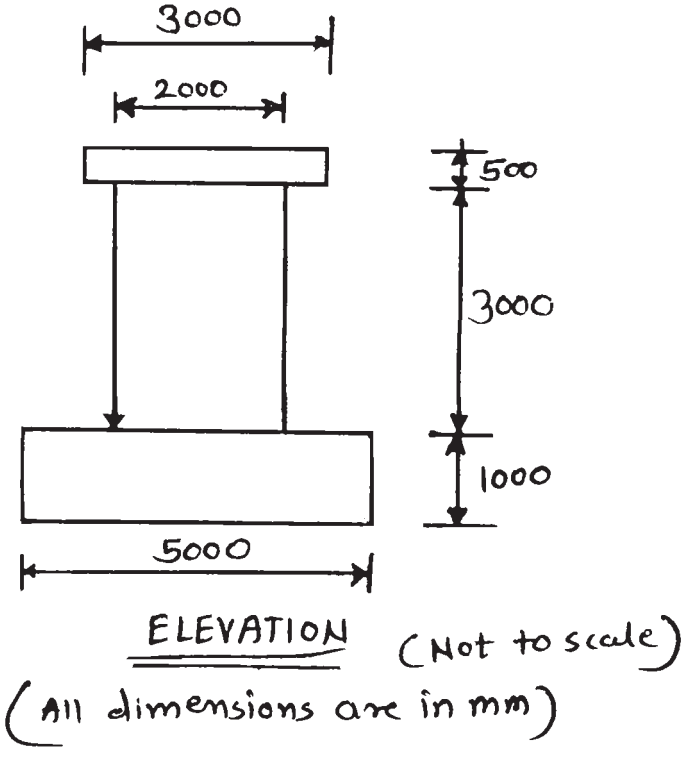


Fig No. 3