



17309

14115

4 Hours/100 Marks

Seat No.

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- Instructions :** (1) **All** questions are **compulsory**.
(2) **Illustrate** your answers with **neat** sketches **wherever necessary**.
(3) **Figures** to the **right** indicate **full** marks.
(4) Assume **suitable data**, if necessary.
(5) **Use** of non-programmable Electronic Pocket Calculator is permissible.
(6) **Mobile Phone, Pager and any other** Electronic Communication devices are not permissible in Examination Hall.

MARKS

1. A) Answer **any three** :

12

i) Draw conventional signs for :

- | | |
|-----------------|---------------|
| a) Ground level | b) Brick work |
| c) Wood work | d) Concrete. |

ii) What do you mean by Roominess ? Explain with sketch.

iii) Draw symbols for :

- | | |
|---------------------|--------------|
| a) Kitchen platform | b) Sink |
| c) Bed | d) Wardrobe. |

iv) Draw following lines :

- | | |
|-------------------|-------------------|
| a) Extension line | b) Dimension line |
| c) Hidden line | d) Section line. |

B) Draw a line plan to scale 1 : 50 for a proposed single storeyed bank building. Built up area is limited to 200 M².

8

2. Figure 1 shows a line plan of a residential building. Draw to a scale of 1 : 50 the following views :

i) Developed plan.

12

ii) Front elevation.

8

iii) Section along PQ.

8

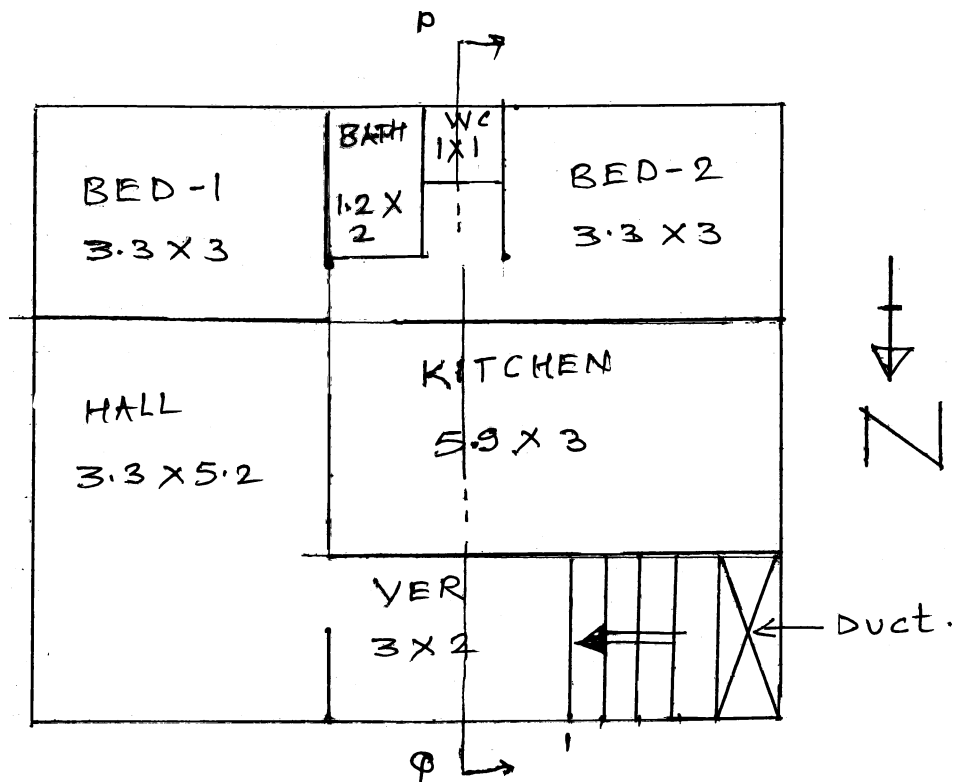
P.T.O.



MARKS

Use following construction notes :

- Depth of foundation 1.2 M below G.L.
- Plinth height above G.L. 750 MM.
- Floor to slab bottom height of all rooms is 3100 MM and that for W.C. and bath is 2400 MM.
- Wall thickness in super structure is 300 MM for external walls and 200 MM for internal walls.
- Slab thickness 120 MM.
- Chajja projection 600 MM.
- Assume any other suitable data, if required.



LINE PLAN Fig. 1

Q. No. 2



MARKS

3. Answer **any three** : **24**

- a) Draw to a suitable scale site plan for the building mentioned in Question No. 2 (Fig. No. 1). The plot size is 15 M × 20 M. The road is on north side of the plot parallel to 15 M. side.
- b) If FSI permissible for the plan in Question No. 2 is 1.2 ; calculate :
 - i) FSI consumed
 - ii) Built up area
 - iii) Carpet area
 - iv) FSI remaining.
- d) State various units required for primary health centre.
- e) Describe the principles used in perspective drawing. What do you mean by vanishing point and eye level in perspective drawing ? What is the difference between one point perspective and two point perspective ?

4. Answer **any two** : **16**

- a) What do you mean by orientation of a building ?
'It is very difficult to get proper orientation for all flats in a Apartment'
comment on this statement.
- b) Draw a detailed plan and section for a RCC footing from following data for a stepped footing.
 - 1) Size of column 230 MM diameter
 - 2) First step 1000 MM × 1000 MM × 300 MM (thk)
 - 3) Second step 800 MM × 800 MM × 200 MM
 - 4) Depth of footing below G. L. is 1000 MM
 - 5) Size of excavation is 1200 MM × 1200 MM.
- c) Why construction note is written on a submission drawing ? Write construction notes for a residential building in Question No. 2 (Fig. No. 1).

5. a) See Fig. 2 and draw to a scale perspective drawing. Assume eye level 1.4 M above ground level. The station point is 3 M from picture plane. **12**

OR

- b) Draw to the scale two point perspective drawing of steps shown in Fig. 3. Assume eye level 1.4 M above G. L. and station point 3 M. from picture plane.



MARKS

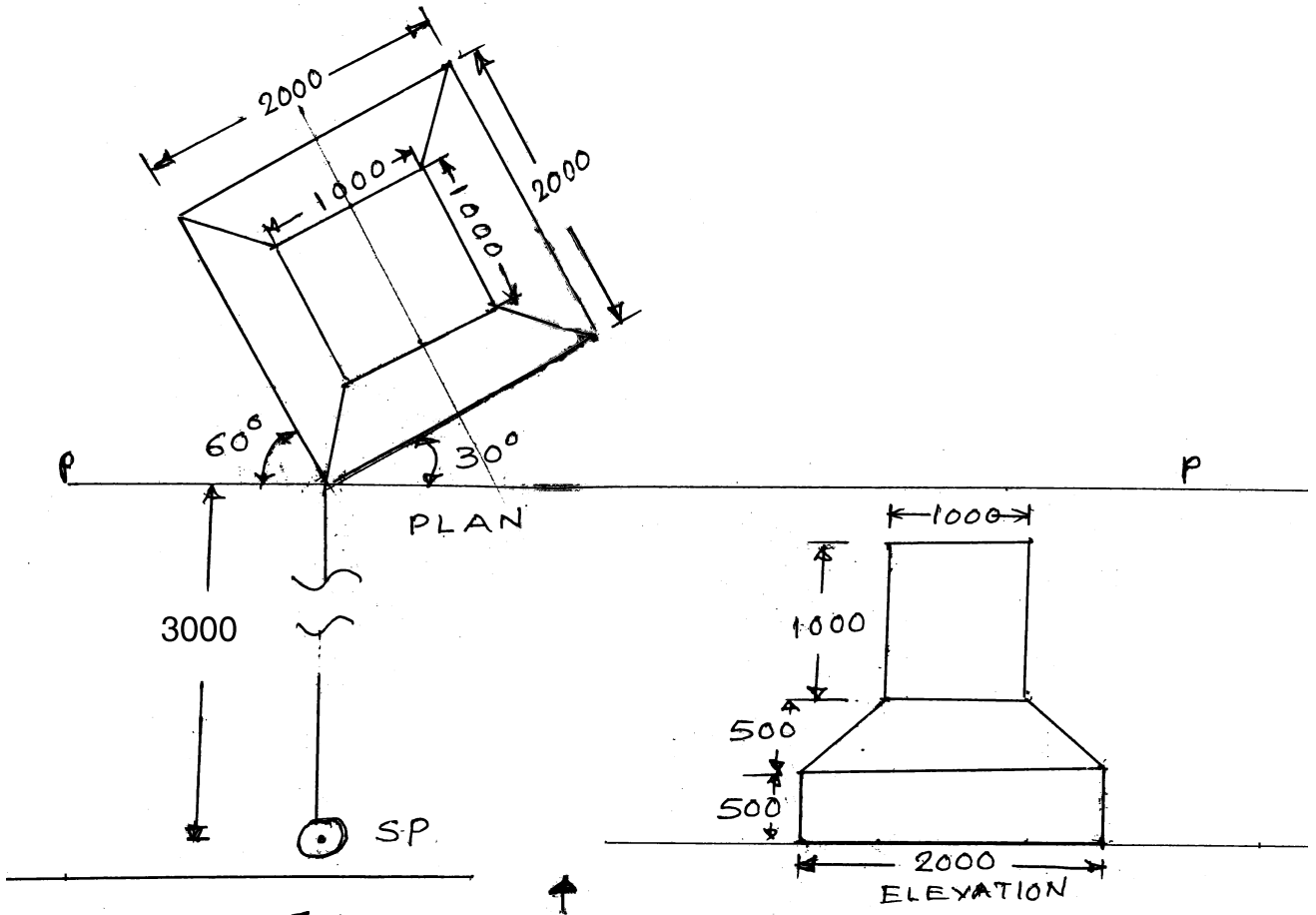


Figure No. 2 Q. No. 5(a)
NOT TO SCALE

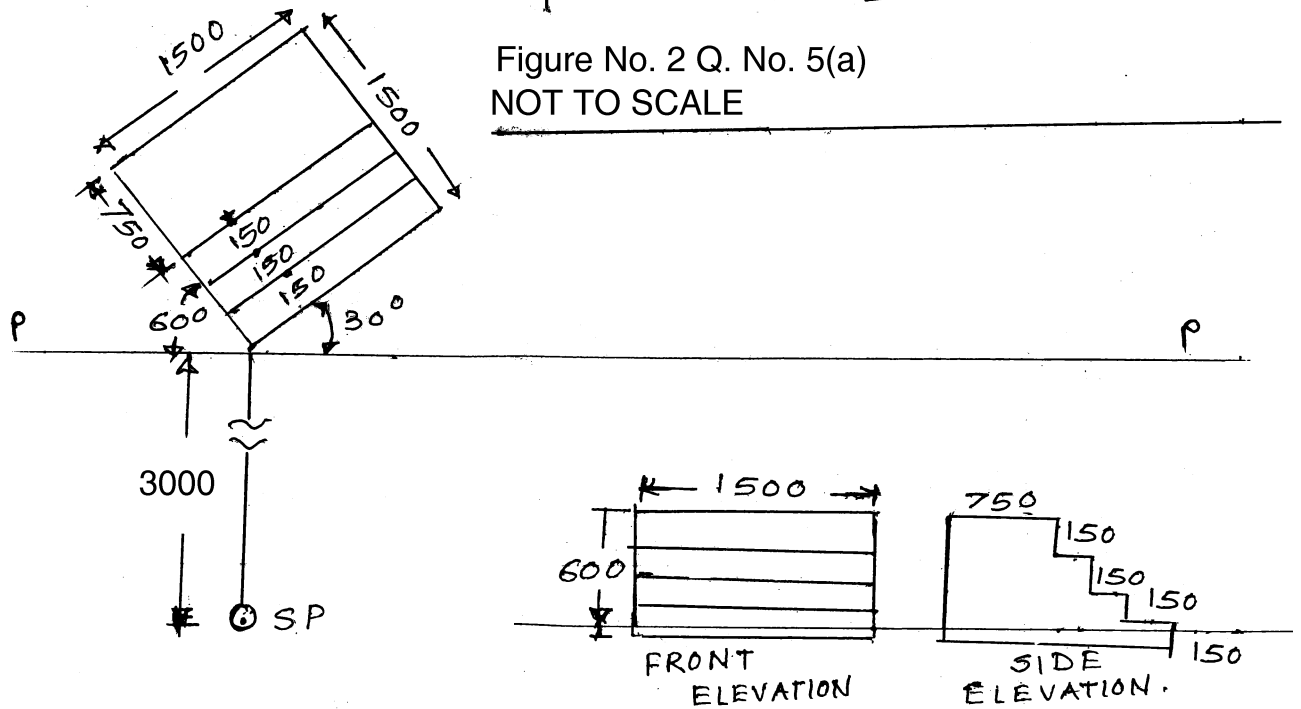


Fig. 3 Q. No. 5(b) NOT TO SCALE