



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 M<sup>2</sup>. 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

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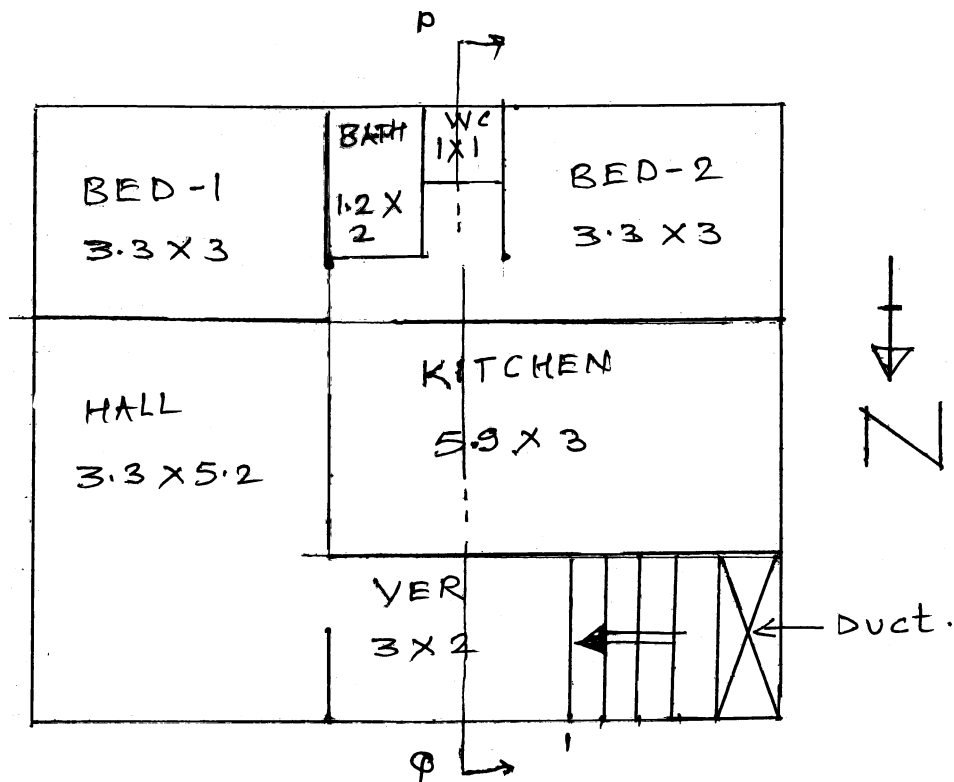
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MARKS

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.

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4



MARKS

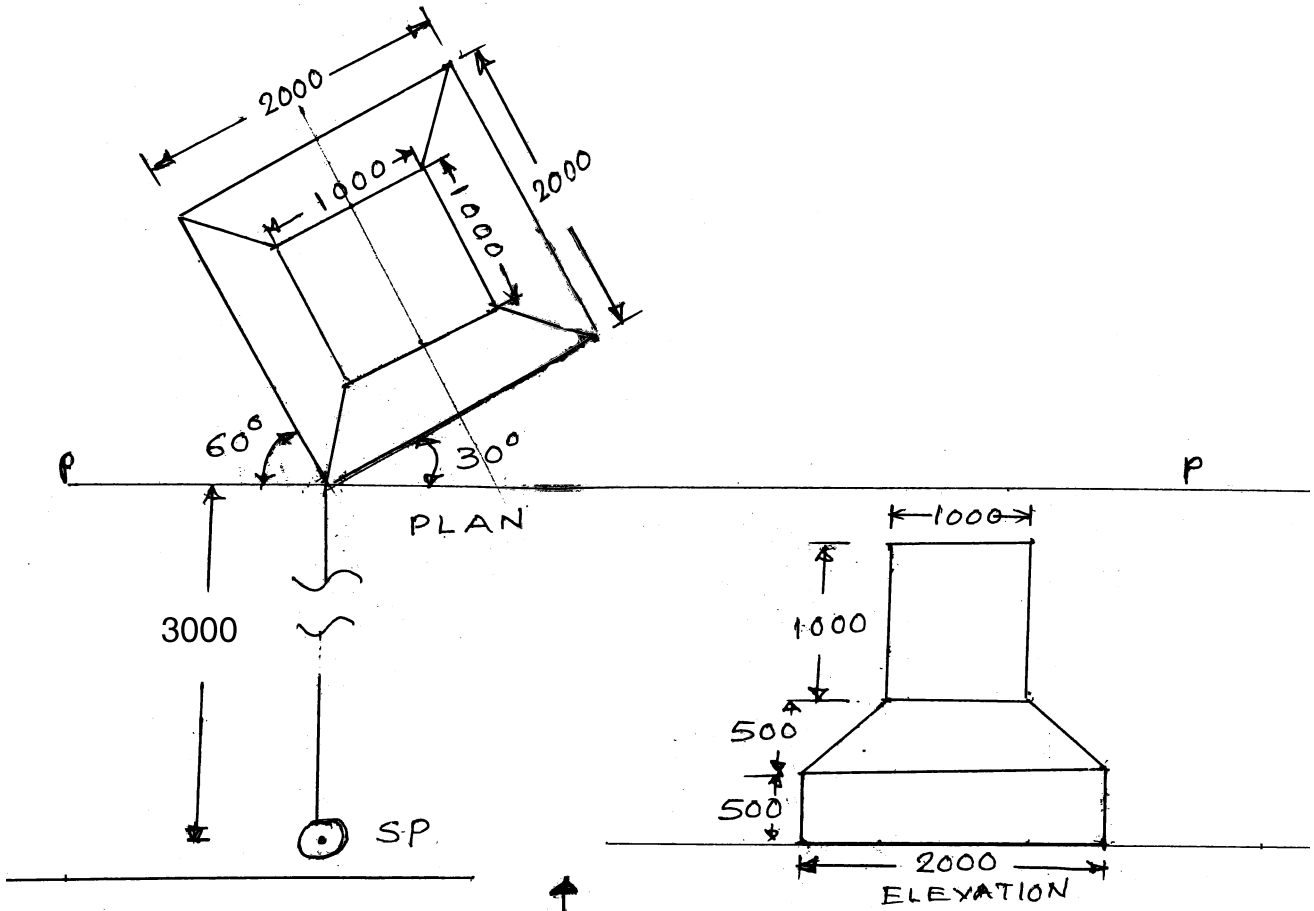


Figure No. 2 Q. No. 5(a)  
NOT TO SCALE

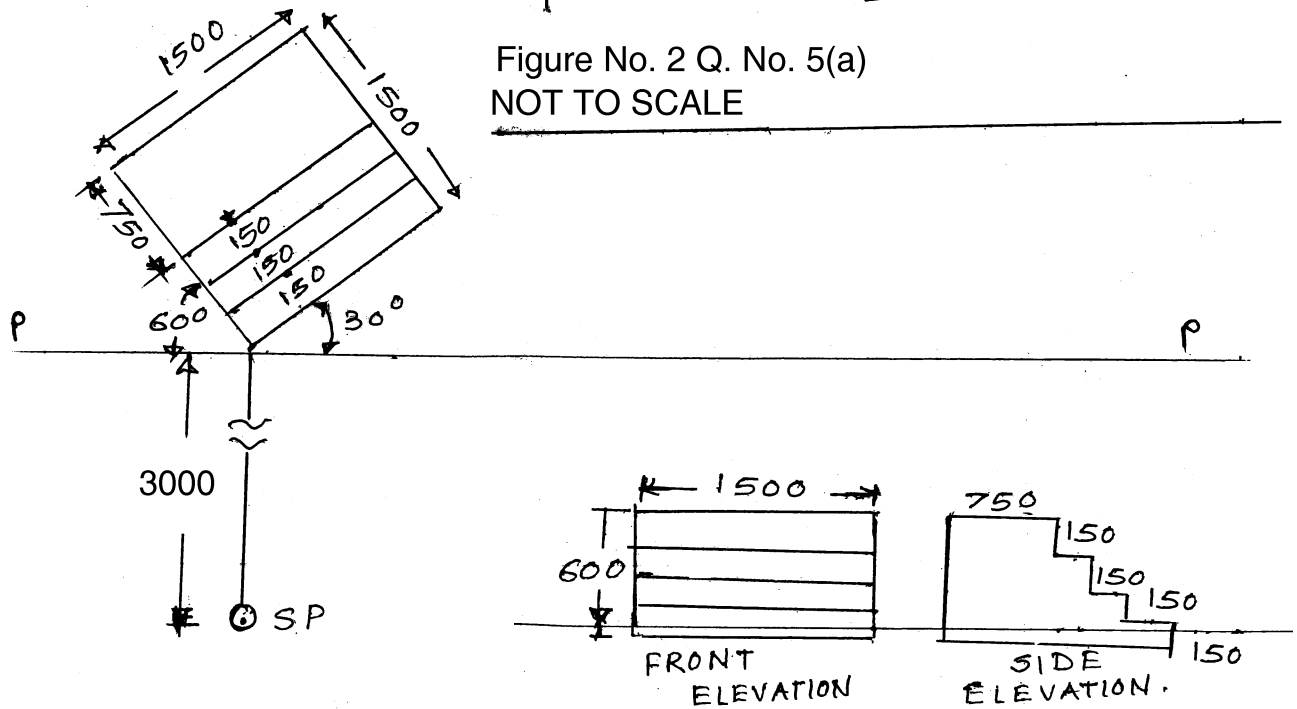


Fig. 3 Q. No. 5(b) NOT TO SCALE