

17309

21819

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) Attempt any THREE of the following: 12
- (i) Draw conventional sign for
- 1) Stone work
 - 2) Glass
 - 3) Ground level
 - 4) Wood work
- (ii) Draw any four types of lines used in drawing.
- (iii) Define:
- 1) Grouping
 - 2) Orientation

P.T.O.

(iv) State minimum Dimensions / Heights for

- 1) Head Room
- 2) Dado for W.C
- 3) Bath Room
- 4) Kitchen

b) Draw a line plan to scale 1:50 for a proposed single storeyed post office building. 8

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

- a) Developed plan 12
- b) Front elevation 8
- c) Section along PQ. 8

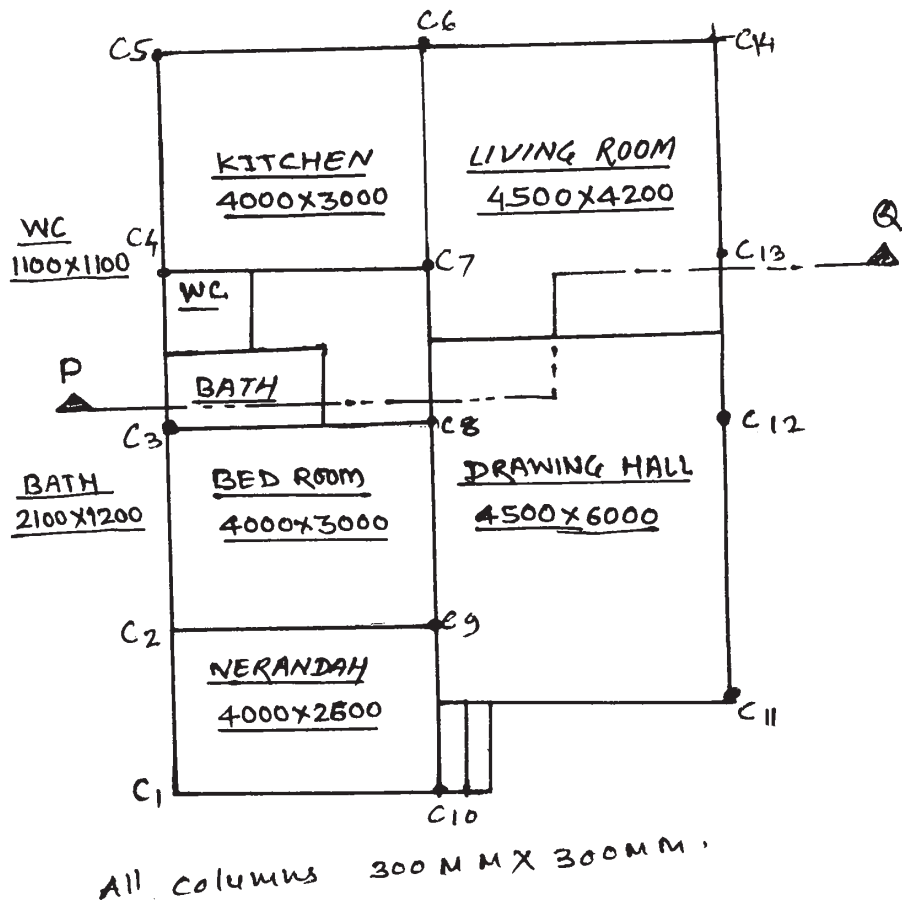


Fig. No. 1

Use following construction notes:

- (i) Depth of foundation 1.5 m below G.L
- (ii) Plinth height above G.L 0.75 m
- (iii) Floor to slab bottom height of all rooms 3.1 m and that for W.C bath and Verandha is 2.4 m.
- (iv) Wall thickness in super structure is 300 mm, for WC, bath 100 mm.
- (v) Slab thickness 120 mm.
- (vi) Chajja projection 450 mm and 75 mm thick.
- (vii) Assume suitable position for windows
- (viii) Assume suitable any other data, if required.

3. Attempt any THREE of the following: 24

- a) Draw to a suitable scale foundation plan for a building shown in Figure No. 1 Que No. 2. Footing size 1200×1200 mm and column size 300×300 mm.
- b) Write schedules of opening for building shown in Fig. No. 01 Que. No. 2
- c) Define builtup area and carpet area. Calculate builtup area and carpet area of a building shown in Fig. No. 1 Que. No. 2.
- d) State various units required for primary health centre.
- e) Explain aspect and prospect.

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

- a) Draw a plan and section of a Dog legged R.C.L stair case from following data.
- (i) Number of risers- 10 of 150 mm height in one flight.
 - (ii) Trades – 275 mm width
 - (iii) Width of stair case is 1200 mm.
 - (iv) Width of landing- 1200 mm
 - (v) Waist slab 130 mm thick. Assume all suitable data if required.
- b) Explain with example the aspect and prospect. State your comments on aspect of a residential building shown in Fig. No. 1 Que. No. 2.
- c) 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?

5. a) Draw to a suitable scale a two point perspective drawing for pedestal shown in Fig. 2. Assume eye level 1.5 m above G.L. 12

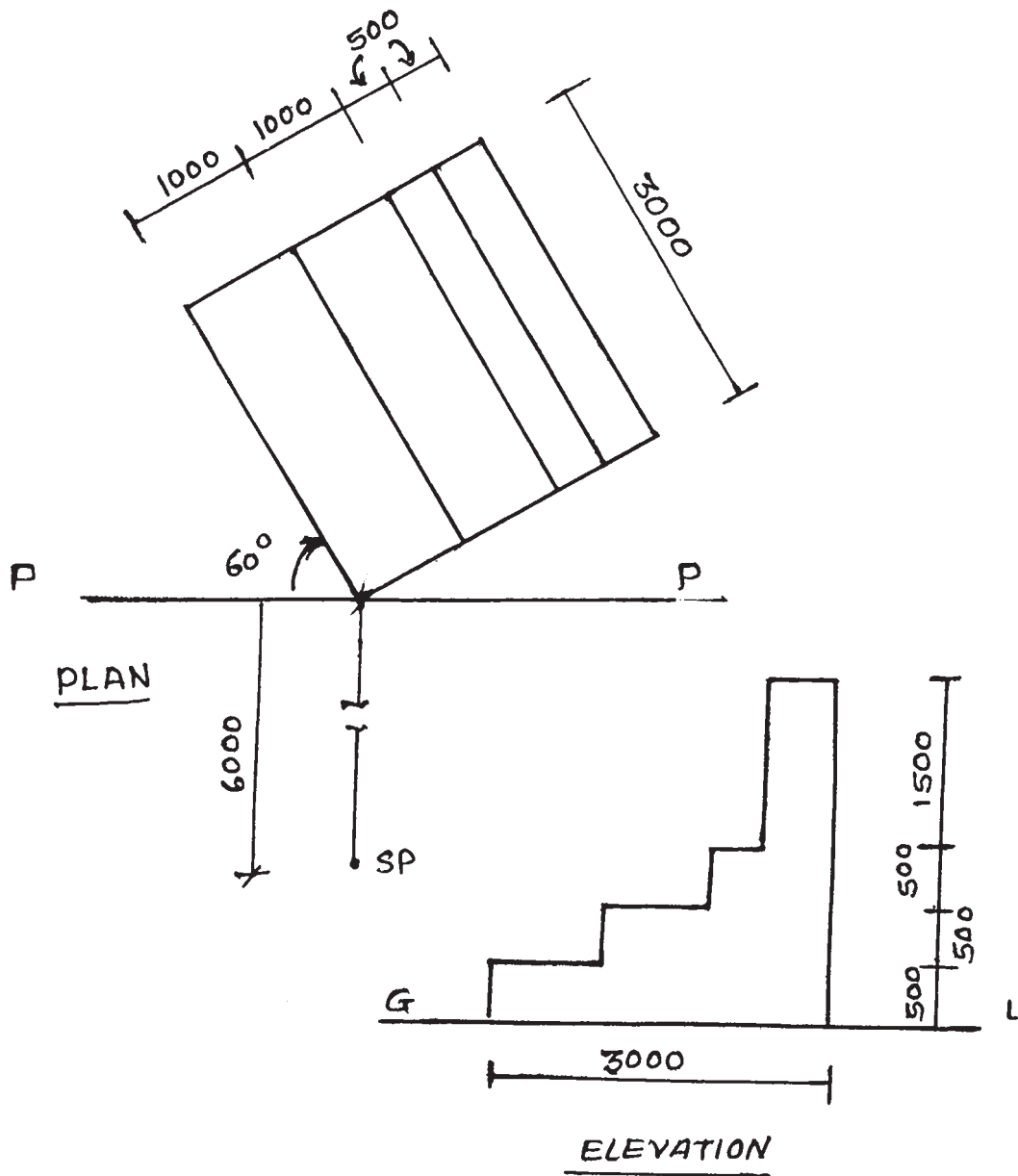


Fig. No. 2

OR

- b) Draw to a suitable scale a two point perspective assuming eye level 2.0 m for a drawing shown in Figure No 3.

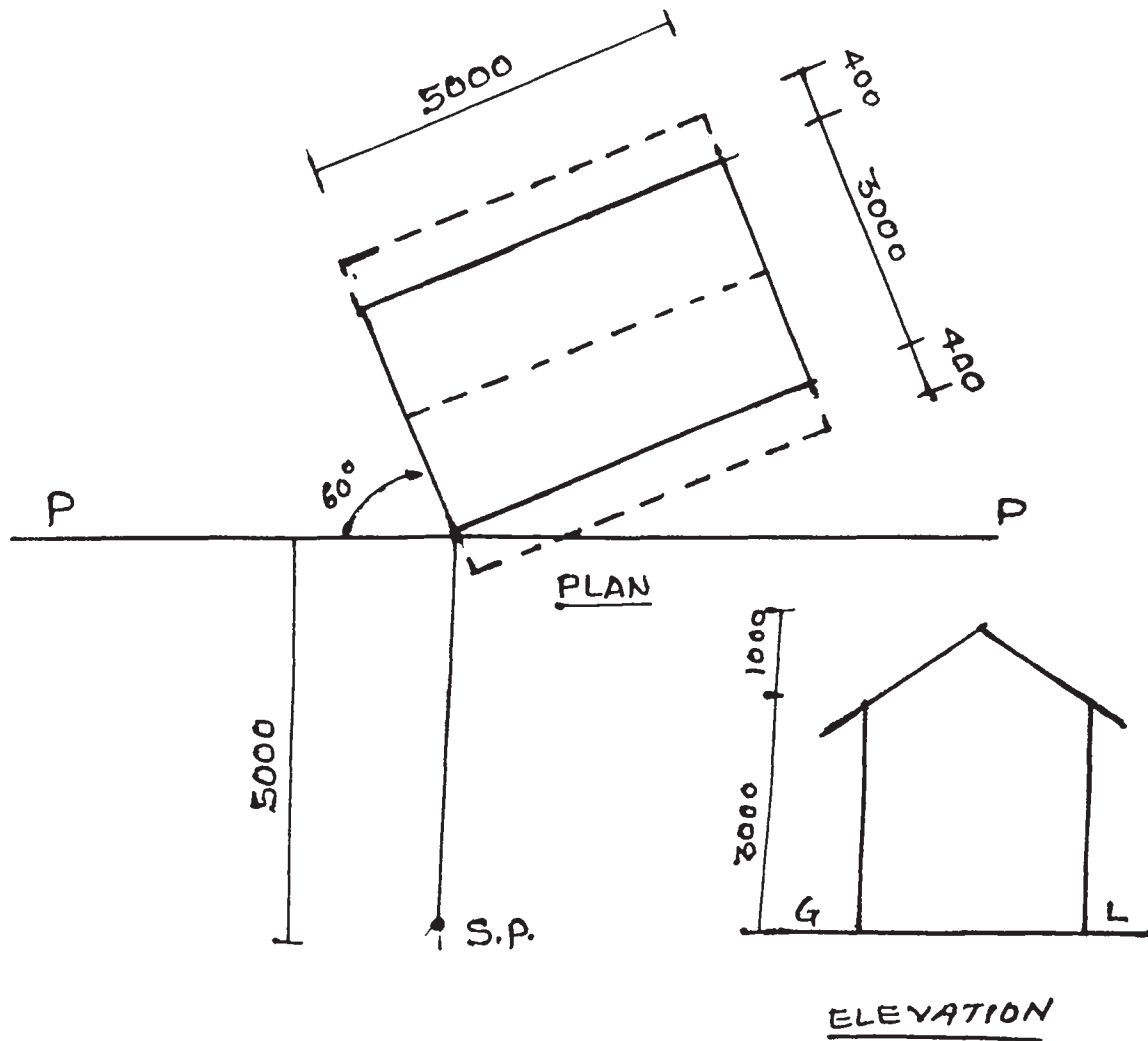


Fig. No. 3
