



17309

21415

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.
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**MARKS**

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

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- a) Draw graphical symbols as per IS 968-1989 :
  - i) Glass
  - ii) Wood work
  - iii) Brick work
  - iv) Concrete.
- b) Draw any four types of line used in drawing.
- c) Define :
  - i) Roominess
  - ii) Privacy.
- d) State minimum dimensions for :
  - i) Kitchen
  - ii) Garage
  - iii) Bathroom with attached W.C.
  - iv) W.C.

B) Draw a line plan of a college canteen. Approximate built up area is 200 sq.m. **8**

**P.T.O.**



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

- i) Developed plan. 12
- ii) Section along AB. 8
- iii) Front elevation. 8
  - a) Depth of foundation below G.L – 1.10 m
  - b) Plinth height above G.L – 600 mm
  - c) Height of bottom of slab from floor level – 3000 mm
  - d) Slab thickness – 125 mm
  - e) Chajja projection – 600 mm
  - f) Thickness of all walls – 150 mm
  - g) Assume suitable positions for windows.

Assume suitable any other data, if required.

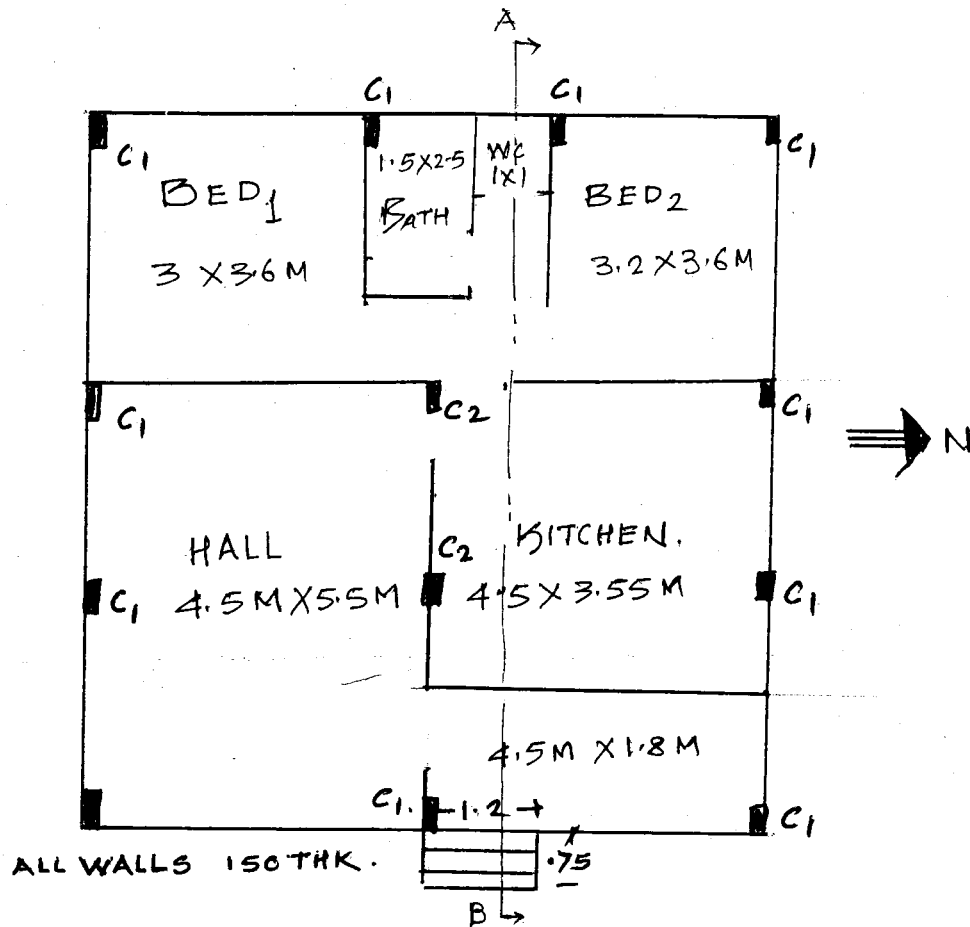


Figure No. 1 (Q. No. 2 and Q. No. 1)



MARKS  
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3. Attempt **any three** :

- a) Draw to a suitable scale foundation plan for a building shown in figure no. 1 Q. No. 2 footing size  $C_1 = 900 \times 1200$  ;  $C_2 = 900 \times 1500$ .
- b) Write suitable construction notes for the building shown in figure no. 1.
- c) Define built up area and carpet area. Calculate built up area of a building shown in figure no. 1. Also calculate carpet area for same building.
- d) What is the purpose of perspective drawing ? What do you mean by a station point and vanishing point in perspective drawing ? Also state the principles used in perspective drawing.

4. Attempt **any two** :

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- a) Draw a plan and section of a single flight of a R.C.C. stair case from following data :
  - i) Number risers – 10 of 150 mm height.
  - ii) Number of trades – 9 of 275 mm width.
  - iii) Width of stair case is 1000 mm.
  - iv) Landing at top is 1000 mm  $\times$  1000 mm.
  - v) Waist slab 125 mm thk.
- b) Explain with example the aspect and prospect. State your comments on aspect of a residential building shown in figure No. 1 (Q. No. 2).
- c) What do you mean by F.S.I. ? Calculate F.S.I. remaining and F.S.I. consumed for the building shown in figure No. 1. The plot is 15 M  $\times$  25 M. F.S.I. permissible in this case is one.

5. a) Draw to a suitable scale a two point perspective drawing for pedestal shown in Fig. 2. Assume eye level 1.4 M. above G.L.

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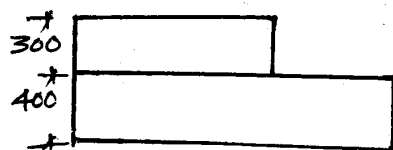
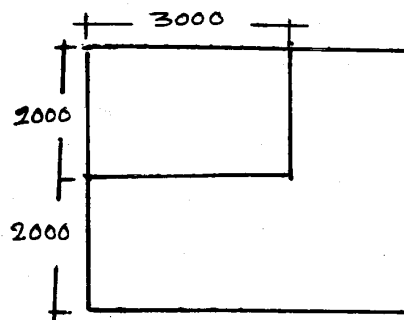


Figure No. 2 (Q. No. 5. a)

OR



- b) Draw to a suitable scale a two point perspective assuming eye level 1.4 M. for a drawing shown in Figure No. 3.

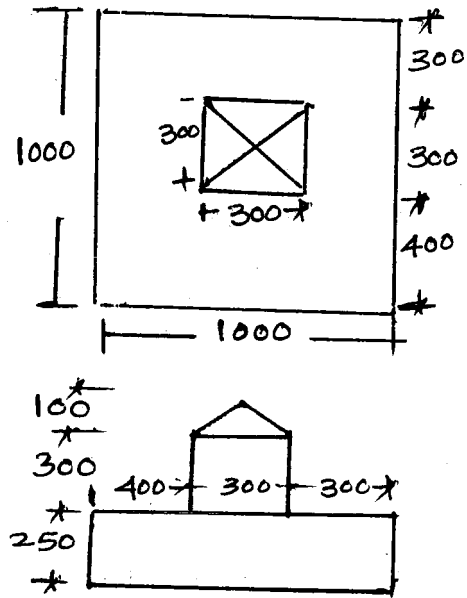


Figure No. 3 (Q. No. 5. b)

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