17309

11819

4 Hours / 100 Marks	Seat No.	

- 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 graphical symbols for:
 - (1) Timber
 - (2) Concrete
 - (3) Glass
 - (4) Stirrups
- (ii) Draw any four types of lines used in civil engineering drawing.
- (iii) Define the "Grouping". How you will use it for residential building?

17309 [2]

Marks

8

- (iv) Give the minimum heights for :
 - (1) Window sill
 - (2) Plinth
 - (3) Parapet wall
 - (4) Head room for staircase.
- b) Draw to a suitable scale a line plan of a "canteen" containing various unit such as manager cabin, store, kitchen, cashier, dining, washing, sanitary unit etc.
- 2. Figure No. 1 shows line plan of a residential building. Draw to a scale of 1:50, the following views. Show all dimensions:

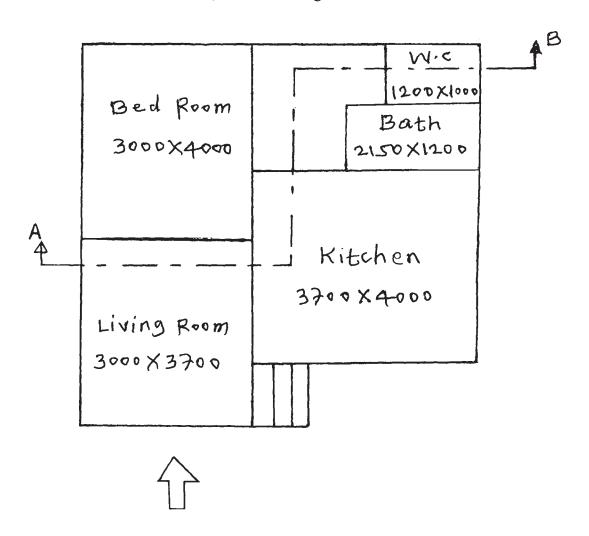


Fig. No. 1

3.

			Marks
a)	Developed plan		12
b)	Front elevation		
c)	Secti	ion along AB	8
	Use	following construction notes.	
	(i)	Hard Strata is available at 900 mm below G.L.	
	(ii)	Concrete bed P.C.C. (1:4:8) 150 mm thick and 900 mm width.	n
	(iii)	Foundation masonry 600 mm in width in C.M. (1:6)	
	(iv)	U.C.R. masonry in plinth, width 450 mm and heigh 600 mm above G.L. in C.M (1:6)	t
	(v)	Super structure consists of B.B. masonry in C.M. (1:6 300 mm thick main walls and 200 mm thick partition wall of sanitary block.	/
	(vi)	Ceiling height is 3000 mm	
	(vii)	R.C.C. slab (1:2:4) thickness 120 mm	
	(viii)	Dado upto 1200 mm height is provided with glazed tile for bath and W.C. walls.	S
	Atte	mpt any THREE of the following:	24
a)	Prepare schedule of openings and area statement for the building shown in Figure No. 1 Q. No. 2.		g
b)	State the importance of site plan and location plan in civil engineering drawing.		1
c)	Draw to a suitable scale foundation plan for the building shown in Figure No. 1 of Q. No. 2.		
d)	Drav	v a neat labelled section of a typical RCC Chajja.	

17309 [4]

Marks

4. Attempt any TWO of the following:

16

- a) Define:
 - (i) Plot area
 - (ii) Carpet area
 - (iii) Plinth area
 - (iv) Floor area
- b) Suggest the various units and their sizes for general post office building.
- c) Define 'Privacy'. State its types and state methods of achieving 'Privacy' during planning of a building.
- 5. Figure No. 2 shows a plan and elevation of small object.

 Draw the two point perspective view of the object to suitable scale taking S.P. at a distance 3 m along the central visual ray.

 Assume eye level is at 1.5 m above the G.L. The base block of pillar makes an angle of 30° with the P. P. and touches the same at A.

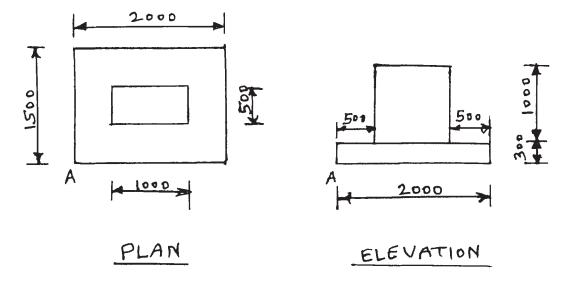


Fig. No. 2
OR

Draw the two point perspective view of a small monumental object shown in Figure No. 3. Retain all construction lines. Assume eye level is at 2.0 m above the G.L.

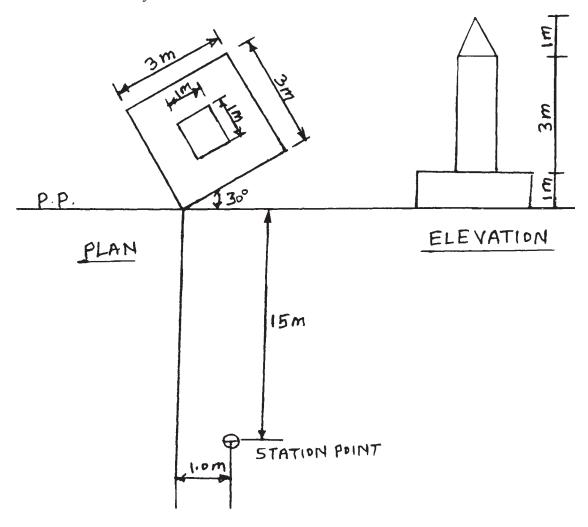


Fig. No. 3