22405

23242 4 Hours / 70 Marks

1.

Seat No.

Instructions : (1) All Questions are *compulsory*.

- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

	1440	11 N3
Atte	empt any THREE of the following :	12
(a)	Draw graphical symbols for the following :	
	(i) Burnt Brick Masonry	
	(ii) Revolving Door	
	(iii) Right side Hung Window	
	(iv) W.C. Indian Type	
(b)	Draw following types of Lines :	
	(i) Centre Line	
	(ii) Pointer Line	
	(iii) Section Line	
	(iv) Hidden Line	
(c)	Define Elegance and Economy in principles of Planning.	
(d)	State the importance of Site Plan and Area Statement in Civil Engineering	
	Drawing.	
(e)	Define the following terms :	
	(i) Station Point	
	(ii) Vanishing Point	

Marks

Draw to a suitable scale the Line Plan of a Bank Building with ATM facility and different units. Also show position of Doors and Windows.
10

3. Attempt the following :

Fig. No. 1 shows a Line Plan of residential building. Draw to a Scale of 1:50 the developed Plan. Show all dimensions and label the units. Use following data :

- (i) Plinth height = 600 mm
- (ii) Super Structure of B.B. Masonry with all walls 300 mm thick and internal walls of bath and WC 100 mm thick.
- (iii) Assume Chajja Projection 750 mm.
- (iv) Assume Plinth Projection 50 mm.
- (v) Assume suitable data if necessary.



Fig. No. 1

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4. Attempt any TWO of the following :

- (a) Prepare Schedule of Openings and Area Statement Table for Building in Figure No. 1.
- (b) Suggest various units and their sizes for Primary School Building for 300 students to be constructed in a Village.
- (c) State any three purposes of Data drawing and Working drawing in Civil Engineering Works.

5. Attempt any TWO of the following :

- (a) Draw to a suitable scale the site plan showing various details and North Direction for Building shown in Figure No. 1.
- (b) Define the following :
 - (i) Built up Area
 - (ii) Carpet Area
 - (iii) FSI
- (c) Draw R.C.C. components for Chajjas to a scale of 1 : 20.

6. Attempt any ONE of the following :

(a) Draw the two point perspective view of the object shown in Figure No. 2 to a suitable scale taking S.P. at a distance of 3 meter along the Central Visual Ray. Assume Eye Level is at 1.5 meter above the G.L.

The Base Block of the Pillar makes an angle of 30° with the P.P. and touches the same of A.



Fig. No. 2

12

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- (b) Draw a plan and section of a single flight of a R.C.C. staircase from the following data :
 - (i) Number of risers 10 of 150 mm height
 - (ii) Number of Treads 9 of 300 mm width
 - (iii) Width of Staircase 1200 mm
 - (iv) Width of Landing 1200 mm

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