GANPAT UNIVERSITY

B. Tech. Semester III (CIVIL ENGINEERING)

Regular Examination: Nov - Dec 2012

2CI 304: Building Planning and Design

Max.Time: 3 Hours

Total Marks: 70

Instructions: - (1) Answer to the two sections must be written in separate answer books.

- (2) Figures to the right indicate full marks.
- (3) Assume suitable data if required.

Section - I

- 1 (A) A residential building is to be planned in a plot of land 10 m x 15 m. The 15m (25) side is on east side adjoining a 12 m wide road. The maximum FSI is 1.2. The following accommodation is to be provided.
 - (a) Drawing room
 - (b) Bed room 2 Nos (one attached bath)
 - (c) Kitchen cum dining
 - (d) Bath and W.C.

Built up area as per Building bye law. From your design prepare the following (a) Floor plan (b) Elevation of building (c) Suitable section (draw section line on plan)

OR 1) lamid (a) samos toore ques(1 (b)

- 1 (A) Draw (i) Floor plan (ii) Front elevation (iii) Suitable section (draw section line on plan) for residential building on plot of 200 m². The following accommodation is to be provided.
 - (a) Drawing room
 - (b) Kitchen cum dining room
 - (c) Store room, Puja room, stair case
 - (d) General bath and W.C.
 - (e) Master bed room (1 Nos)
 - (f) Verandah.
- 2 (A) A plan and elevation of pedestal is shown in the below Figure- 1. Draw to a suitable scale the two point perspective view of it. Assume eye level 1.5 mm above G.L & station point 10 cm from picture plane. Retain all construction lines.

Section - II

4	(A)	List out Principles of planning of building? Explain Grouping and Roominess in detail.	(5)
	(B)	What is orientation? Enlist various factors affecting on orientation of building. Give C.B.R.I recommendation for orientation of buildings.	(6)
5	(A)	Define:	
	/V \$26	(1) Common Plot (2) Developer (3) Owner (4) Parapet (5) Parking Space (6) Loft	(6)
	(B)	Discuss issue of occupancy certificate.	(6)
		OR	(6)
5	(A)	Define:	(6)
		(1) Carpet Area (2) Set back line (3) Built up area (4) Mezzanine floor (5) Balcony (6) Margin	
	(B)	Write down building bye law for following items	(6)
	91	(i) Stairs (ii) Plinth height (iii) Parapet wall (iv) Wall thickness (v) Slab thickness	
6	Atte	empt any Two:	
	A	Draw neat sketches of following components of building.	(12)
		(1) Fully paneled door (2) Paneled window	
		(3) Wooden half paneled window	
	В	What is building bye - law? List out various building bye laws and objectives of	
		building bye law.	
	C	Write the functions of following components (a) Sill Level (b) Plinth (c) Coping	
		(d) Damp proof course (e) Lintel (f) Chajjas	
		"END OF PAPER"	
		(A) Livery (1) Floor plan (11) Floor development of 200 m ² . The following accommodation	
		pinn) to residential duliums of provided.	
		(a) Drawing room	

2 (A) A plan and elevation of podestul is shown in the below Figure-

suitable scale the two point perspective view of its Assume eye level

above G.L & station point 10 cm from picture plane. Retain all construction lines

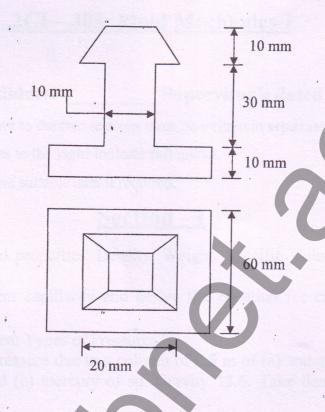


FIGURE: 1