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2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS **BUILDING PLANNING DESIGN & DRAWING** (CIVIL ENGINEERING)

NOVEMBER 2005	TIME: 3 HOURS
	MAX MARKS: 80
Answer any FIVE Question All Questions carry equal many ?????	
1. Write short notes on the following:	
(a) Building bye-laws.	
(b) Classification of buildings.	
(c) Open spaces in buildings. [6+5+5]	
2. Differentiate between the regulations that have to be followed in Groindependent residences.	oup Housing Scheme from those for [16]
3. Explain in detail how the orientation of building helps to get good ve	entilation to a building. [16]
4. Sketch a single line plan for a residential building and show the posit [16]	tion of doors and windows for good ventilation.
5. List out the principles of architectural composition and explain, in derequired.	etail, any two of them with neat sketches, if [8+4+4]
6. (a) Draw a bubble diagram/chart to explain the circulation pattern in dining room, kitchen, store, puja, three toilets and a utility room.	a 3-bedroomed house, with separate living and
(b) How would you minimize circulation area in the above house?	[8+8]
7. Design an health club for the following requirements and draw a line	diagram.
(a) Reception with waiting room -1No.	
(b) Managers room -1 No.	
(c) Coaches room -2Nos.	
(d) Dressing room -2Nos.	
(e) Gym rooms -2Nos.	
(f) Toilet blocks -2 Nos.	
(g) Refreshment hall -1No.	[16]

- 8. Note: The following specifications may be taken unless otherwise specified in the individual line plans. The line plan in the figure below shows the internal dimensions in mm. Draw to a suitable scale the following views:
- (a) Plan
- (b) Sectional Elevation

Select suitable positions and sizes of doors and windows According your choice, if it not given in the line plans. The specifications for the buildings are as follows:

- iv. Mansonry in superstructure -11/2 brick in cement mortar 1:6
- v. Flooring 25 mm thick mosaic tiles on 100mm thick 1:4:8 concrete bed.
- vi. Doors Timber doors fully paneled at suitable places and of suitable sizes.
- vii. Windows Timber fully glazed at suitable places and of suitable sizes.
- viii. Roof:
- A. for sloped roof A.C.sheets over timber purlins or mangalore tiled roof.
- B. for flat R.C.C.roof 120mm thick R.C.C.slab of 1:2:4 with 80mm thick wearing course.