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## 2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

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

TIME: 3 HOURS

	MAX MARKS: 80
Answer any FIVE Questions All Questions carry equal marks ? ? ? ? ?	of
1. Write short notes on the following:	C
(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 Group Housing Sche independent residences. [16]	
3. Explain in detail how the orientation of building helps to get good ventilation to a building. [16]	
4. Sketch a single line plan for a residential building and show the position of doors and [16]	windows for good ventilation.
5. List out the principles of architectural composition and explain, in detail, any two of the required. [8+4+4]	nem with neat sketches, if
6. (a) Draw a bubble diagram/chart to explain the circulation pattern in a 3-bedroomed house, with separate living and dining room, kitchen, store, puja, three toilets and a utility room.	
(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]

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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:

. . .

ii. Plinth height above groud level .....1.0 m

iii. Mansonry in foundation and up to plinth – Uncoused rubble masonry in lime mortar. ....

iv. Mansonry in superstructure -11/2 brick in cement mortar 1:6

Faucat

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.