

IV B.Tech I Semester Supplementary Examinations, April/May 2005
BUILDING PLANNING DESIGN & DRAWING (FOR 99 BATCH)
(Civil Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Write short notes on the following:
 - (a) Building bye-laws.
 - (b) Classification of buildings.
 - (c) Open spaces in buildings.
2. Differentiate between the regulations that have to be followed in Group Housing Scheme from those for independent residences.
3. Discuss the important points to be kept in mind while fixing the orientation of a building.
4.
 - (a) Write a note on Elegance of building
 - (b) Identify the different types of circulation patterns possible in office buildings.
5. Explain with examples how geometrical shapes and forms are used in building composition.
6. Balconies/verandahs can improve the comfort levels of even a small residence in various ways Elaborate.
7. Design a College Canteen for the following requirements. Draw a line diagram and assume data suitably.
 - (a) Entrance Hall.
 - (b) Dining Hall of 100 Sqm .
 - (c) Staff room of 30 Sqm .
 - (d) Staff room for ladies of 30 Sqm .
 - (e) Kitchen of 40 Sqm .
 - (f) Store of 15 Sqm .
 - (g) Utility of 20 Sqm.
 - (h) Toilet blocks 2 Nos.
 - (i) Xerox counter-15 Sqm .
 - (j) STD booth-15 Sqm .

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:
 - i. Foundation depth below ground level.....1.1.m
 - ii. Plinth height above ground level1.0 m
 - iii. Mansonry in foundation and up to plinth – Uncoused rubble masonry in lime mortar.....1:2.
 - iv. Mansonry in superstructure -1½ 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.

Assume any other suitable data wherever required and mention the same in the drawing.(figure1)

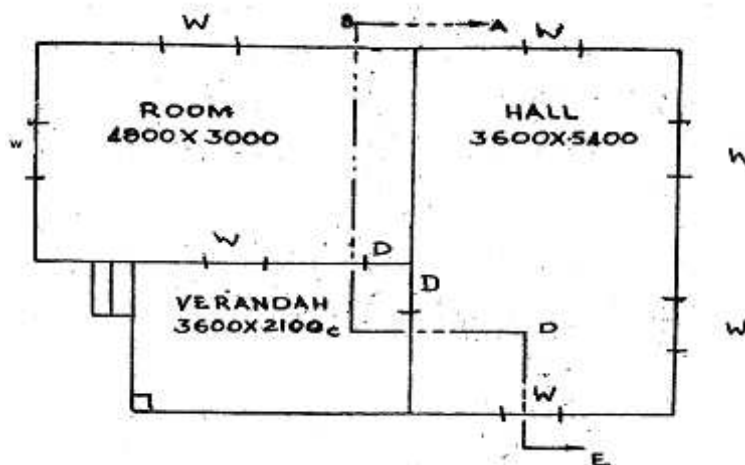


Figure 1:
