

4E4115	Roll No. _____	[Total No. of Pages : 3]
	4E4115 B.Tech. IV Semester (Main/Back) Examination, June/July - 2015 Civil Engg. 4CE5A Building Planning	

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 26

Instructions to Candidates:

Attempt any **five** questions, selecting **one question** from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination.

- i. Half size Drawing sheet.

Unit - I

1. a) Discuss the criteria for site selection for a building. How functions of a building affects site selection. (10)
- b) Discuss the matters to be shown in site plan. (6)

OR

1. a) What is sun path diagram? Discuss any one method of drawing sun path diagram. (8)
- b) Discuss different types of sun shading devices support your answer with sketches. (8)

Unit - II

2. a) Discuss criteria for thermal comfort. Explain uses of Bioclimatic chart. (8)
- b) Discuss various factors affecting orientation of building. (8)

OR

2. a) What are different climatic zones in India? Discuss their characteristics. (8)
- b) What do you understand by Building Bye-Laws? Discuss regulations regarding
- i) open spaces.
- ii) height and size of rooms, kitchen, WC and Bath. (8)

Unit - III

3. What do you mean by principles of planning? Discuss factors affecting principles of planning. (16)

OR

3. Discuss factors to be considered in "vastu". Design a residential building on a plot of 15m×25m as per vastu. (16)

Unit - IV

4. Design and draw a bank building on a plot of 70m×100m. Assume requirements of accomodation suitably. (16)

OR

4. Design and draw a primary school of 400 student capacity on a plot of 100m×150m. Road is on the East side of the plot. (16)

Unit - V

5. a) Discuss the requirements of good lighting system in a building. (8)

- b) Discuss functional requirements of a good ventilating system. Explain the effect of wind velocity in a room when windows are provided in opposite walls. (8)

OR

5. Discuss acoustical design of a cinema Hall. Support your answer with sketches. (16)

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