Total No. of Questions: 22 Total No. of Pages: 02

Roll No. _____

# B.Tech IV sem (Main/Back) Exam April-May 2026
## Civil Engg.
## 4CE4-07 Building Planning
## Paper Coe : 4E1317

**Time: 3 Hours** **Maximum Marks: 70**

**Attempt all ten questions from Part A, five questions out of seven questions from Part B and three questions out of five questions from Part C.**

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. (Mentioned in form No.205)

1- NIL_____ 2. NIL_____

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**Part A (Answer should be given up to 25 words only)**

**All questions are compulsory**

Q.1 Describe the term "Site plan".

Q.2 Discuss the uses of sun chart.

Q.3 Define bioclimatic chart.

Q.4 Discuss the term "Orientation".

Q.5 Explain the importance of building - bye-laws.

Q.6 Describe aspect and prospect in principles of planning.

Q.7 Differentiate built up area, carpet area and super built up area with neat sketch.

Q.8 What is the relevance of Vastu Shastra in modern building planning?

Q.9 Define FSI and FAR with formula.

Q.10 How sound insulation can be achieved in buildings.

10 x 2 = 20

**Part B (Analytical/Problem solving questions)**

**Attempt any Five questions**

Q.1 Discuss different types of buildings with examples.

Q.2 Describe various sun shading devices.

Q.3 Discuss the elements of climate and climatic zones of India.

Q.4. Describe the various factors affecting orientation.

Q.5 Discuss the NBC regulations regarding mean of access and line of buildings frontages.

Q.6 Discuss the factors considered in modern building design with respect to Vastu Shastra.

Q.7 Describe the fire fighting provisions in a buildings

5 x 4 = 20



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## Part C (Descriptive/Analytical/Problem Solving/Design question)
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**Attempt any three questions**

Q.1 Explain the methods of drawing sun path diagram with neat sketch.

Q.2 Discuss the factors affecting orientation and explain the criteria of orientation for tropical climate.

Q.3 Explain the following principles of planning :

- Poominess
- Grouping
- Circulation
- Elegance
- Privacy

Q.4 Discuss the functional design of primary health centres.
T-409

Q.5 Write short notes on following :-

(a) Lighting and ventilation

(b) Doors and windows

**3 x 10 = 30**

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