

4E1210

Roll No. \_\_\_\_\_

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4E1210  
B. Tech. IV - Sem. (Main) Exam., May - 2019  
PCC Civil Engineering  
4CE4 - 07 Building Planning

Time: 2 Hours

Maximum Marks: 80

*Instructions to Candidates:*

*Attempt all five questions from Part A, four questions out of six questions from Part B and two questions out of three from Part C.*

*Schematic diagrams must be shown wherever necessary. Any data you feel missing may 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. half size sheet

2. NIL

### PART - A

(Answer should be given up to 25 words only)

[5×2=10]

All questions are compulsory

Q.1 Define the term: -

[2]

(a) Built of area

(b) Carpet area

(c) Super built up

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Q.2 Write the different methods of drawing the sun chart. What is the utilization of sun chart?

[2]

Q.3 What are the acoustical defects in buildings? Explain in brief.

[2]

Q.4 Write short notes on:-

[2]

- (a) Grouping
- (b) Roominess
- (c) Circulation

Q.5 Write a short essay on Hot arid Zones.

[2]

### PART - B

(Analytical/Problem solving questions)

[4×10=40]

Attempt any four questions

Q.1 Discuss the criteria for site selection for a building. How functions of a building affects site selection

[10]

Q.2 Write short notes on:-

[2.5×4=10]

- (a) Bi climatic chart
- (b) Elegance
- (c) Plinth regulation
- (d) Global climate

Q.3 What are the objectives of building by laws?

[10]

Q.4 Describe briefly the general principles underlying the noise control and various constructional measures adopted for achieving sound insulation in buildings.

[10]

Q.5 Which factors should be considered while purchasing a residential building according to the Vastu Shastra? Why we move towards Vastu?

[10]

Q.6 Explain how do you classify doors and windows from their operational point of view.

[10]

### PART - C

(Descriptive/Analytical/Problem Solving/Design Questions) [2×15=30]

Attempt any two questions

~~Q.1~~ Design and draw the plan of a residential building on a plot of 15m × 25m. Road is on the north side of the plot. [15]

Q.2 Classify the buildings based on occupancy and types of construction. [15]

~~Q.3~~ Discuss acoustical design of a cinema hall. Support your answer with neat sketch. [15]

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