4E 2036

Roll No.

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### B.Tech. IV Semester (Main/Back) Examination 2012

# **Civil Engineering**

## **4CE5 Building Technology**

Time: 3 Hours

Maximum Marks: 80

Min. Passing Marks: 24

#### 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 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)

Drawing sheet size (full)

#### Unit - I

1. a) Write down the criteria for selecting the site.

(8)

b) What are sun shading devices.

(8)

#### OR

- a) Classify the buildings based on occupancy and types of construction. (12)
- b) Define passive solar heating and cooling.

(4)

#### Unit - II

2. a) Discuss the factors affecting orientation.

(12)

b) What is the significance of open space around a building.

**(4)** 

### OR

a) What are the objectives of building by laws.

**(8)** 

b) Discuss about various climatic zones of India and their comfort conditions.

(8)

# Unit - III

(4)	a) What do you mean by principles of planning.	3.
(12)	b) Explain the significance of aspect and privacy for residential building.	8
	OR	
(8)	a) Discuss different consideration of vastu in site selection.	
stu. (8)	b) State the orientation of different building components according to Vas	
	Unit - IV	
. (16)	Explain the Codal provisions used while Planning a primary school building.	١,
	OR	
oad is (16)	Design and draw the plan of a residential building on a plot of $12m \times 25m$ . Roon the north side of the plot.	
	Unit - V	
. (12)	a) Discuss about the functional requirements of a good ventilating system.	5.
(4)	b) What do you understand by sound insulation of buildings.	
	OR	
point (8)	a) Explain how do you classify doors and windows from their operational of view.	
stical (8)	<ul> <li>Discuss about general principles which plays important role in Acou- design of building.</li> </ul>	