

Enrollment No:-\_\_\_\_\_

Exam Seat No:-\_\_\_\_\_

# C.U.SHAH UNIVERSITY

Summer-2015

Subject Code: 4TE04BLP1

Subject Name: **Building Planning**

Course Name: B.Tech (Civil)

Date: 21/5/2015

Semester: IV

Marks: 70

Time: 02:30 TO 05:30

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**Instructions:**

- 1) Attempt all Questions in same answer book/Supplementary.
- 2) Use of Programmable calculator & any other electronic instrument prohibited.
- 3) Instructions written on main answer book are strictly to be obeyed.
- 4) Draw neat diagrams & figures (if necessary) at right places.
- 5) Assume suitable & perfect data if needed.

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**SECTION-I**

Q-1 Attempt the following.

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|--|----|
| (a) Explain the sanitation             | 01 |
| (b) Explain the elegance.              | 02 |
| (c) What are building bye-laws?        | 02 |
| (d) What do you mean by built-up area? | 02 |

Q-2 (a) Classification of perspective projection? 05

(b) A single room building of size 7m x 4.5m with 4m height and 300 mm wall thickness is lying on the ground plane. A vertical edge is in the picture plane and the longer face containing that edge mark an angle of 30° with the picture plane. The station point is 11 m in front of the vertical edge and 8 m about the ground plane. Drawn the perspective view of the single room building. 05

(c) If the plot area is 25m\*45m in jubilee hills area in Hyderabad for a floor space index of 3.5, what is the maximum built up area that can be put on the plot? 04

**OR**

Q-2 (a) State and define the various perspectives drawing element. 05

(b) Drawn the perspective view of single room pitched roof building of size 1.5 m x 1.2 m with a door and a side window. When station point is 9 m from picture plane and height of eye level is 1.5 m from G.L. Total height of room is 1.2 m. All dimensions are in meter. Note that a corner of the roof is in pp. Four lines of height are needed. 05



	(c) If the plot area is 45mm*60mm in jubilee hills area in Hyderabad for a	04
	floor area ratio of 1.0, what is the maximum built up area that can be put on the plot?	
Q-3	(a) Defines the term ‘floor area ratio’ and ‘floor spaces index’?	05
	(b) What is an aspect? Prepare an aspect diagram with reference to residential building.	05
	(c) How do you achieve flexibility in a building?	04
	<b>OR</b>	
Q-3	(a) Enlist the principles of building planning? Explain any four.	05
	(b) Explain following principles of building: circulation, grouping and privacy.	05
	(c) Explain draw the symbols of common building components.	04
	<b>SECTION-II</b>	
Q-4	(a) Defines the “ground line”.	01
	(b) Defines the “picture plane”.	02
	(c) Defines the “vanishing point”.	02
	(d) Defines the “angle of vision”.	02
Q-5	(a) Explain civil engineering symbols for doors & windows.	05
	(b) Explain civil engineering symbols for various electrical services and application.	05
	(c) Describe the conventional symbols.	04
	<b>OR</b>	
Q-5	(a) What is the building setback requirement?	05
	(b) What is a requirement for off street parking?	05
	(c) What is a provision for safety from fire and explosions?	04
Q-6	(a) What is a standard dimension for room of residential building?	05
	(b) Explain the HVAC system planning.	05
	(c) Draw the plan of a typical bus-stop building.	04
	<b>OR</b>	
Q-6	(a) Explain the application of auto- cad and explain the any six commands.	05
	(b) Which command are used for preparing a building plan in AutoCAD? And explain the ellipse command.	05
	(c) Explain fillet command and chamfer command.	04

