Enrollment No:	Exam Seat No:
----------------	---------------

## **C.U.SHAH UNIVERSITY**

## **Summer Examination-2016**

Subject Name: Building Planning

**Subject Code :** 4TE04BLP1 **Branch:** B.Tech(Civil)

**Semester :** 4 **Date :** 18/05/2016 **Time :** 02:30 To 05:30 **Marks :** 70

## **Instructions:**

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Attempt the following questions:	(14)	
	a) In India, wind direction in summer and monsoon is		1	
	<b>b</b> )	,		
	c)	(A) 0.9 m (B) 1.0m (C) 1.2 (D) 1.5m Minimum width of Habitable room is	1	
	<ul> <li>(A) 1.8m</li> <li>(B) 2.1 m</li> <li>(C) 2.5Mm</li> <li>(D) 3.0 m</li> <li>(D) 3.0 m</li> <li>(E) Minimum headroom required on staircase landing is (a) 1.5 m</li> <li>(E) 1.8m</li> <li>(E) 2.1m</li> <li>(D) 2.5m</li> <li>(E) A room which receives light and air from a specific direction is known as</li> </ul>		1	
			1	
		(A) Aspect (B) Prospect (C) Elegance (D) Circulation  f) For residential building window openings area should be minimum (A) 5% of a floor area (B) 10% of floor area (C) 20% of floor area (D) 25% of floor area		
	1)			
	-)			
	g) As per NBC-2005 the minimum width of staircase in residential building is (A) 1.0m (B) 1.2m (C) 1.5m (D) 1.8m		1	
	h)	Define Building line	1	
	i)	i) Draw conventional symbols of pump and India type WC		
	<b>j</b> )			
	<b>k</b> )	•		
	1)	Draw line plan of dog-legged stair with dimension.		
	m)	) Draw conventional sign of wood and plaster.		
	n)	What should be the minimum height of a habitable room when air-conditioned?	1	
Attemp	t any f	our questions from Q-2 to Q-8		
Q-2		Attempt all questions		
-	(a) (b)	Enlist various principles of planning. Explain any three of them. Explain the following terms:	07 07	



		(1) FS1 (2) Selback (3) margin	
Q-3		Attempt all questions	
	(a)	State the requirements of a Hospital building & draw its line plan.	07
	<b>(b)</b>	Explain the following term with sketch	07
		(1) station point (2) horizontal plane (3) vanishing point	
Q-4		Attempt all questions	
	(a)	Design and draw a residential building plan from the following requirement:	07
		(1) Verandah (2) Living cum Dining (3) Two Bed room with attached toilet (4)	
		Kitchen cum store (5) Stair room (Internal stair only).	
		Select the suitable area for above requirements and draw Ground floor plan to a	
<b>(b)</b>		scale of 1:100. Show north line. Assume other suitable data.	
	<b>(b)</b>	Draw the sectional elevation passing through stair of Q No 4 (a).	07
Q-5		Attempt all questions	
(a) (b)	(a)	Draw the Elevation of residential building design in Q No 4 (a).	07
	<b>(b)</b>	Sketch arrangement of furniture in the following (i) Drawing room 5.4m x 4.8m	07
	(ii) Bed room 5m x 4m. Write the dimension of furniture.		
Q-6		Attempt all questions	
(a) (b)	(a)	Explain the necessity of building bye-laws. Explain Carpet area and Built up area.	07
	<b>(b)</b>	Draw a line plan of Residential building with following requirements.	07
		(i) Living room 3.5m x 4m.	
		(ii) Kitchen cum dining 3m x 4m	
		(iii) Bed room 3.5m x 4m	
		(iv) Common toilet 1.20m x 2 m	
		(v) Verandah 1.20m x 2 m	
Q-7		Attempt all questions	
	(a)	Explain any seven commands used in Auto CAD	07
	<b>(b)</b>	State the requirements of a Post office building & draw its line plan.	07
Q-8		Attempt all questions	
		Prepare the exterior two point perspective of a Security room of plan size 3m x	14
		4m on the scale of 1:50. Assume thickness of wall 0.3m, clear height=3m, slab	
		thickness =0.15m. Longer wall making an angle of $30^{\circ}$ with horizontal plane. In	
	perspective view a door (size 0.90m x 2.10m) on one face and a window (size		
		1.20m x 1.20m) on the other face should appear. Assume all other suitable	
		dimension.	

