Q-

C.U. SHAH UNIVERSITY **Summer Examination-2017**

Subject Name: Building Planning

	Subject	Code: 4TE04BLP1	Branch: B.Tech (Civil)	
	Semester	r: 4 Date: 15/05/201	17 Time: 02:00 To 05:00	Marks: 70
	(2) I (3) I	Use of Programmable calculat Instructions written on main a	tor & any other electronic instrument is prohibit inswer book are strictly to be obeyed. res (if necessary) at right places. rd.	ted.
-1		Attempt the following que	estions:	(14)
	a)	For residential building wind (a) 5% of floor area (c) 20% of floor area	dow are opening area should be minimum (b) 10% of floor area (d) 25% of floor area	(1)
	b)	 (c) 20% of hoor area As per NBC 2005 Hospitals (a) Business buildings (c) Institutional buildings 		(1)
	c)	As per NBC 2005 the minin	num width of stair case in residential buildings c) $1.5m$ (d) $1.8m$	is (1)
	d)	For better Roominess, the le	ength to width ratio should be (c) 1.5 to 1.7 (d) 2 to 4	(1)
	e)	What is the best prospects o (a) North (b) South		(1)
	f)		FF, which equation is right mathematically regard	rding (1)
		a) [GF Built-up Are	-	
		b) [FF Built-up Are	-	
		c) [(GF+FF) Built-ud) [plot area/(GF+F)	F) Built-up Area]	
	g)	first floor. Calculate the F.S	5 m ² occupied at ground floor and 100 m ² occu J.I used in such construction. (c) 1.00 (d) 2.00s	pied at (1)
	h)	For obtaining better privac position? (a) At Centre	(b) At 1/3 distance from wall	e door (1)
	i)	1	room as per the privacy concern?	(1)
	j)	(a) Square (b) Rectangu For the better human circula	alar (c) Circular (d) Hexagonal ation in the building the staircase location shoul	d be at (1)



		(a) Near to all room	(b) Far away from all room	
		(c) Near to the kitchen	(d) Near to the bed room	
	k)	Define Floor Area Ratio.		(1)
	Ď	What is perspective drawings?		(1)
	m) Define economy for principle of planning.			(1)
n) Define flexibility for principle of planning.			nning.	(1)
Attemp	ot any f	our questions from Q-2 to Q-8	-	
Q-2		Attempt all questions		(14)
-	Α	State the requirements of a Post offic	e building & draw its line plan.	(7)
	В	What are the objectives of building b	y laws?	(7)
Q-3		Attempt all questions		(14)
X ·	Α	Briefly define and explain following:		
		1) Built up area		(7)
		2) Floor space index		
	В	Explain Two Point Perspective draw	ing with suitable example.	(7)
Q-4		Attempt all questions		(14)
	A	Explain Building bye-laws for open a	-	(7)
	B	What are the advantages of using CA		(4)
	С	Explain the functions of local author	ity?	(3)
Q-5		Attempt all questions		(14)
	Α	Explain the following terms for Persp	pective Drawings	(8)
		 Eye Point Vanishing Point(VP) 		
		3) Eye Level		
		4) Angle of vision		
	В	Explain off street parking.		(6)
	_	I the second sec		(-)
Q-6		Attempt all questions		(14)
	Α		and Draw only plan) in a plot of	220 (14)
		Square meter	1 11 / • • \ 1	
		-	hall(ii)kitchen & dinning(iii)	
		Pooja room(iv)		
		Master Bed Room(v) Bed room(v) Stair case	i) Store (vii)Toilet. Also plan	
			anly stain askin on the first	
		to go on first floor, provide	only stair cabin on the lifst	
		floor. Building should be on the ground floor	only. Consider FSI 65 %.	
07		Attomate all averations		(14)
Q-7	A	Attempt all questions Plan a School building (Draw of	unly plan) with the following	(14) (14)
	A	details (i)	nity pran/ with the following	(14)
			Office room (iii) Peccentian (iii)	8
		Classes for 60	Office room (iii)Reception (iv)	0
			horotonica (vi) 1 Librory (vii)	1
		Students each (V) 3 Science 18	aboratories (vi) 1 Library (vii)	
			H UNIVE	Page 2 of 3



staff Room
(viii) Water Room (ix) Toilet. Draw plan of the Building. Take
three
laboratories and the Library on the First Floor. All other Units
on the
Ground Floor. Take Size of the room as per normal Requirement of
Educational Building.

Q-8	Attempt all questions		(14)	
	Α	Which are the Points to be Considered while Planning of		(7)
		i. Res	idential Building	
		ii. Pub	lic Building	
		iii. Indu	istrial Building.	
	B	Explain the Role of	f Civil Engineer and Architect in Building Planning.	(7)

