

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : Building Planning

Subject Code : 4TE04BLP1

Branch: B.Tech (Civil)

Semester :4

Date : 05/05/2018

Time : 10:30 To 01:30

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.
- (5) Drawing sheets of A4 size to be provided for sketching.

Q-1 Attempt the following questions: (14)

- a) Modify the given statement as per the standard requirement – “an ideal site for construction of residential building should be steeply sloping”.
- b) The desirable aspect of kitchen is _____.
- c) The direction which receives sun for most part of the day is _____.
- d) The room least used for 24hrs in a day is _____.
- e) The minimum width of a bathroom shall be _____.
- f) The minimum head room for stair shall be _____.
- g) Room that requires minimum intensity of light is _____.
- h) Verandahs should not be provided on north facing because _____.
- i) The tilt of earth axis with respect to vertical is _____.
- j) Summer solstice occurs on _____.
- k) Give the various climatic zones of India.
- l) Mention some essential features of green building.
- m) The height of a boundary wall for building shall be limited to _____.
- n) Lintel level should be provided in all buildings – (True or False)?

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions (14)

- a) Explain the principles of building planning in detail. **12**
- b) Define floor area and carpet area. **02**

Q-3 Attempt all questions (14)

- a) Draw and explain about perspective views. **10**



	b) Explain the reason behind choice of doing stone masonry or brick masonry.	04
Q-4	Plan a residential building as per the building bye-laws. Show the built-up area, plot area, carpet area, road width, setback line, statutory clearances, doors & windows and minimum room dimensions as per NBC 2005.	14
Q-5	Attempt all questions	(14)
	a) Explain the provisions of NBC for a building made for physically handicapped people.	07
	b) Explain planning of horizontal & vertical circulation in a school building. Explain along with neat sketches.	07
Q-6	Attempt all questions	(14)
	a) Draw the symbol of the following items in building drawing:	08
	1. Bricks	
	2. RCC	
	3. Washbasin	
	4. W.C	
	5. Tiles	
	6. Window	
	7. Revolving door	
	8. Single leaf door with double swing	
	b) Explain the effects of climate on building planning.	06
Q-7	Attempt all questions	(14)
	a) Explain floor space index (FSI). The plot area of a 10 story residential building is 800sq.m. Find the FSI.	07
	b) Explain the significance of different directions in a plot of land for construction of a residential building according to Vaastu.	07
Q-8	Attempt all questions	(14)
	a) What are the objectives of building bye-laws? When do you apply building bye-laws? Explain the bye-law for building height.	08
	b) Define and differentiate the following terms:	06
	1. Site plan & key plan	
	2. Sketch & diagram	
	3. R.F & reduced scale	

