

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY
Winter Examination-2018

Subject Name : Building Planning

Subject Code :4TE04BLP1

Branch: B.Tech (Civil)

Semester :4

Date : 31/10/2018

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.
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Q-1 Attempt the following questions: (14)

- a) Write the categories of buildings.
- b) The desirable aspect of a bedroom is _____.
- c) Give name of the local authority responsible for plan passing.
- d) What is building line?
- e) What is the appropriate aspect ratio of a building?
- f) The minimum head room for stair shall be _____.
- g) The number of stairs per flight shall be limited to _____.
- h) Draw a sketch showing row houses.
- i) The tilt of earth axis with respect to vertical is _____.
- j) Winter solstice occurs on _____.
- k) Give the various climatic zones of India.
- l) The height of a ventilator is generally at _____.
- m) Window area for wall shall be approximately _____ of wall area.
- n) Width of door for toilets is generally _____.

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

Q-2 Attempt all questions (14)

- a) Is intelligent building a useful addition to society? Explain. **10**
- b) Define plinth area and floor area. **04**

Q-3 Attempt all questions (14)

- a) Explain with neat sketch – one point, two point and three point perspective views. **10**
- b) Write the difference between brick masonry house and framed house. **04**



- Q-4** Plan a three storey residential building with one basement parking. The building shall have all the necessary amenities for residents as per the provisions of building bye-laws. Plot area is 700sq.m and FSI is 1.8. Plan the entrance and exit of the plot. Also draw elevation of the building. **14**
- Q-5** **Attempt all questions** **(14)**
- a) Explain the significance of the following: key plan, building plan, site plan, drainage layout, section and elevation drawings. **07**
- b) Is vastu a science or a myth? **07**
- Q-6** **Attempt all questions** **(14)**
- a) Explain why planning of a house is essential **10**
- b) Explain planning of a house in hilly region. **04**
- Q-7** **Attempt all questions** **(14)**
- a) Explain floor space index (FSI). The plot area of 8storey residential building is 600sq.m. Find the FSI. **07**
- b) Explain the 1D, 2D and 3D drawings. How do these drawings help in construction of a building? **07**
- Q-8** **Attempt all questions** **(14)**
- a) What do you mean by building bye-laws? Why are they necessary? **08**
- b) Define and differentiate the following terms: **06**
1. Green building & intelligent building
 2. Sketch & diagram
 3. R.F & reduced scale

