

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Building Planning

Subject Code : 4TE04BLP1

Branch: B.Tech (Civil)

Semester : 4

Date : 26/04/2019

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.
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Q-1 Attempt the following questions:

(14)

- a) What are the building bye- laws?
- b) State the objectives of building bye- laws.
- c) Define the plan of a building.
- d) What are the factors affecting the planning of residential buildings?
- e) Mention the various climatic zones of India.
- f) Define FAR.
- g) Enlist the various elements of climate?
- h) Define Master plan.
- i) List out hardware requirement for AutoCAD package.
- j) What are the essential parameters for planning a residential building?
- k) Enlist the various component of a CAD system.
- l) What are the advantages of using CAD system to the design engineers?
- m) Define perspective projection
- n) Write the necessity of perspective drawing.

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

Q-2 Attempt all questions (Use drawing sheet)

- (a) Draw a residential building plan for a detached house with its plan and elevation. **(10)**
- (b) Draw any eight Conventional signs and symbols in building drawing. **(04)**



- Q-3 Attempt all questions**
- (a) Describe in detail about the various types of residential buildings with neat sketches. (10)
 - (b) Write short notes on circulation in buildings. (04)
- Q-4 Attempt all questions**
- (a) Discuss the ideal directions and their characteristics for building planning. (06)
 - (b) Write short notes on privacy in buildings. (04)
 - (c) Enumerate the different types of sun shading devices with neat sketch. (04)
- Q-5 Attempt all questions**
- (a) Explain in detail about the special features in National Building Code of India. (06)
 - (b) Enumerate the building bye- laws requirements for Off street parking. (04)
 - (c) Discuss the applicability with limitation of building bye- laws. (04)
- Q-6 Attempt all questions**
- (a) Explain the building bye- laws with reference to line of building frontage and minimum plot size. (06)
 - (b) Discuss the importance of lighting and ventilation as per building bye- laws. (04)
 - (c) Define 63 1/2° rule for fixing the height of the building with a neat sketch. (04)
- Q-7 Attempt all questions**
- (a) Explain the parameter and design features to be considered for planning a school building also draw a typical layout plan of school building. (06)
 - (b) Discuss the purpose and requirement of kitchen for various activities in a building. (04)
 - (c) What are the requirements for the bathroom in planning of residential building? (04)
- Q-8 Attempt all questions**
- (a) Discuss the classification of perspective projection with neat sketches. (06)
 - (b) Explain the various concepts of perspective elements with neat sketches (04)
 - (c) Explain the setup operations carried out in planning for a drawing in AutoCAD. (04)

