C.U.SHAH UNIVERSITY
Winter Examination-2019

Subject Name : Building Planning

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

Semester : 4   **Date : 21/09/2019**   **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.

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

   a)   Define building footprint.

   b)   State the objectives of building bye- laws.

   c)   Define the term privacy in building planning.

   d)   What are the advantages of Mezzanine flooring?

   e)   What is meant by Parapet wall?

   f)   Define perspective projection

   g)   Mention the importance of perspective drawing.

   h)   Define key plan.

   i)   Define the term circulation in building planning.

   j)   What are the essential parameters for planning a residential building?

   k)   Define $63\frac{1}{2}$ rule for fixing the height of the building.

   l)   Enlist the advantages of using CAD system to the design engineers?

   m)   Define FSI.

   n)   What is meant by setback line?

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

Q-2   Attempt all questions

   (a)   Explain about the ideal directions and their characteristics for building planning.   **(07)**

   (b)   Write a note on roominess and grouping in building planning.   **(07)**

Q-3 **Attempt all questions**

(a) What is a sun path diagram? Explain CBRI recommendations for obtaining optimum orientation of the building. **(07)**

(b) Enumerate the different types of sun shading devices with neat sketch. **(07)**

Q-4 **Attempt all questions**

(a) Enumerate in detail about the provision for drainage, sanitation and safety from fire and explosions in building bye- laws. **(07)**

(b) Explain the building bye- laws with reference to the minimum plot size. **(07)**

Q-5 **Attempt all questions**

(a) Explain in detail about the special features in National Building Code of India. **(07)**

(b) Mention the principle underlying building bye- laws. Explain the importance of lighting and ventilation as per building bye- laws. **(07)**

Q-6 **Attempt all questions**

(a) Explain the parameter and design features to be considered for planning a hospital building also draw a typical layout plan of hospital building. **(07)**

(b) Discuss the requirements for the bathroom and store room in planning of residential building? **(07)**

Q-7 **Attempt all questions**

(a) Discuss the design features to be considered for planning a bus station also draw a typical layout plan of bus station. **(07)**

(b) Explain the purpose and requirement of dining room for various activities in a residential building. **(07)**

Q-8 **Attempt all questions**

(a) Explain the classification of perspective projection with neat sketches. **(07)**

(c) Discuss the commands, operation, and hardware requirement for AutoCAD package. **(07)**