

P P SAVANI UNIVERSITY

Fourth Semester of B. Tech. Examination
May 2019

SECV2090 Building & Town Planning

22.05.2019, Wednesday

Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

- Q - 1 Do as directed. (Any Five) [05]
- (i) For a residential building which of the following sequence is proper?
a) Passage - Dining - Kitchen - Store
b) Dining - Passage - Store - Kitchen
c) Stair - Verandah - Study - Living
d) Kitchen - Store - Dining - Living
- (ii) Draw the symbol for the following as per Indian Standard (IS):
i) Ceiling fan ii) Wood
- (iii) The height of ceiling of a room above loft shall not be _____ than 1.5 m. (Less, more)
- (iv) Define the term: vanishing point
- (v) Which of the following room is important considering the direction of wind?
a) Kitchen b) Store c) Study d) Bed
- (vi) What do you mean by carpet area?
- (vii) State desirable aspect for bed room and living room.
- Q - 2 (a) Explain Objectives, Scope and Applicability of Building Bye Laws and Development control regulations. [05]
- Q - 2 (b) Enlist the basic principles of building planning? Explain any two principle with figure in detail. [05]
- OR
- Q - 2 (a) Your client has purchased plot no.20. Admeasuring 25.0 m X 20.0 m. with its shorter side abutting to 9.0 m. wide society road. Requirements are specified as follows: Drawing Room, Kitchen cum dining room with attached store and access to outside, Two bed Rooms with attached toilet, Guest bed room, Common toilet, Verandah, internal staircase Plot details are as follows: North is parallel to 9.0 m. wide society road. Permissible built-up area = 40 % FSI permissible = 1.1 Perform design steps like area calculations, area allocations, trial grouping, and room size determination, provide doors, windows, ventilators, other openings etc., Design Stair case and Prepare line plan showing all this detail. [05]
- Q - 2 (b) Prepare detailed plan with all relevant details based upon line plan prepared in Q-2 (a). [05]
- Q - 3 (a) Differentiate one point and two-point perspective view with neat sketch. [05]
- Q - 3 (b) Classify and explain the buildings according to their use. [05]
- OR

- Q - 3 (a)** Enlist principles of architectural composition and explain unity and mass composition in detail. [05]
- Q - 3 (b)** What do you mean by perspective view? Write merits and demerits of perspective view. [05]
- Q - 4** Attempt any One. [05]
- (i) Explain the procedure to construct building with legal permission.
- (ii) Write short note: a) Elevation b) Section.

SECTION - II

- Q - 1** Write a short note on [05]
- (i) Slum
- (ii) Zoning
- Q - 2 (a)** What are the objects of town planning? [05]
- Q - 2 (b)** Which are the points taken into consideration while preparing a land use planning? [05]
- OR**
- Q - 2 (a)** Discuss growth of town according to origin. [05]
- Q - 2 (b)** Explain the principles of land use planning? [05]
- Q - 3 (a)** What are the methods adopted for the collection of data in survey? [05]
- Q - 3 (b)** State the principles of planning a neighborhood unit. [05]
- OR**
- Q - 3 (a)** Differentiate between Social Survey and Vital Survey [05]
- Q - 3 (b)** What are the essential features of a neighborhood unit? [05]
- Q - 4** Attempt any One. [05]
- (i) What are the prevention methods of slums?
- (ii) Explain classification of residential building according to housing.
