

Enrollment No./Seat No.:

GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Engineering - SEMESTER - III EXAMINATION - WINTER 2025

Subject Code: 3130609

Date: 15-12-2025

Subject Name: Building and Town Planning

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

	Marks
Q.1 (a) Enlist and explain the types of buildings based on occupancy as per NBC.	03
(b) Write a brief note on orientation of building.	04
(c) Draw a Plan for a Semi-detached bungalow with a plot area of 10m x 15m, for a family of 6 person. also include scale, north direction.	07
Q.2 (a) Write a short note on ODPS (Online Development Permission System).	03
(b) Enumerate the principals of planning. Explain any three of them.	04
(c) Draw an Elevation for the Semi-detached bungalow plan drawn in Q.1.(C). Include scale and vertical dimensions.	07

OR

(c) Draw a section for the Semi-detached bungalow plan drawn in Q.1.(C). Include scale and vertical dimensions.	07
Q.3 (a) Discuss the importance of building by-laws and local regulation in building planning.	03
(b) Write short notes on the key planning considerations for earthquake-resistant buildings.	04
(c) Differentiate among one point, two point and three point perspective drawing.	07

OR

(a) What is BIM (Building Information Modelling)? State its importance in Building Planning.	03
(b) Explain the influence of RERA ((Real Estate Regulatory Authority) in the field of real estate.	04
(c) Write step by step procedure for drawing a two point perspective view of an object.	07
Q.4 (a) Briefly explain the historical development of town planning in ancient India and name any two planned cities of that period.	03
(b) What is a civic survey and its necessity in town planning?	04
(c) Write a short note on origin of town.	07

OR

- (a) List the fundamental principles of town planning. **03**
- (b) Mention the uses of GIS in modern town planning and explain their importance. **04**
- (c) Describe the types of data collected and methods of their presentation and analysis for planning of a town. **07**

Q.5

- (a) What is the importance of road networks in the town planning? **03**
- (b) List the main components of a town and briefly describe them. **04**
- (c) Discuss the causes and effects of slum formation. Suggest suitable remedial measures to prevent the growth of slums. **07**

OR

- (a) What is neighbourhood planning? State its importance in town development. **03**
- (b) Write short notes on slum clearance and rehabilitation measures. **04**
- (c) Discuss how development controls in new town planning help in regulating urban growth and ensuring balanced development. **07**
