

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-I&II EXAMINATION – SUMMER 2025****Subject Code:3110004****Date:30-06-2025****Subject Name:Basic Civil Engineering****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) What is FSI? Discuss in brief.	03
	(b) Write a short note on low cost housing.	04
	(c) Enlist and explain principles of planning.	07
Q.2	(a) Describe primary divisions of surveying.	03
	(b) Enlist various types of cement and discuss the properties of any two.	04
	(c) Explain with neat sketch various components of building & its functions	07
	OR	
	(c) Enlist different bonds of Brick and Describe English bond in detail	07
Q.3	(a) Explain Application of Total station.	03
	(b) Explain traffic signals in brief.	04
	(c) Enlist various building services and objectives of building services.	07
	OR	
Q.3	(a) As a Civil Engineer discuss your role in society	03
	(b) Draw any four symbols used in electrical layout.	04
	(c) Give classification of solid waste and describe why its segregation in wet and dry is necessary?	07
Q.4	(a) What is nominal dimensions for door and window?	03
	(b) Draw sketch of Dumpy level and show all parts.	04
	(c) Write short note on BRTS.	07
	OR	
Q.4	(a) Enlist Instruments used in chain surveying.	03
	(b) Write a short note on rain water harvesting systems	04
	(c) Describes characteristics of contour in detail.	07
Q.5	(a) Give application of Remote sensing	03
	(b) Compare BRTS and Metro.	04
	(c) Define : (1) offsetting (2) Base line (3) Magnetic Meridian (4) True Bearing (5) Reduced Bearing (6) Bench Mark (7) Mean Sea Level	07

OR

Q.5 (a) Give Dimension of Modular Brick and discuss characteristics of first class brick **03**
(b) Give full form of: a) DPC b) MH c) FSL d) BBCC **04**
(c) Discuss Heritage structures & its conservations. **07**
