Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

Subj	ect (	BE - SEMESTER-I & II(NEW) EXAMINATION – WINTER Code:3110004 Date:09-	
		Name:Basic Civil Engineering :30 AM TO 01:00 PM Total M	arks:70
nstru			al Ks. 70
		Attempt all questions.	A
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
		Simple and non-programmable scientific calculators are allowed.	, O
Q.1	(a)	Discuss Branches of Civil Engineering.	03
	(b)		04
	(c)	Enlist different types of foundation and explain Open footing.	07
Q.2	(a)	Give necessity of town planning.	03
	(b)		04
	(c)	Enlist various building services and objectives of building services  OR	07
	(c)	And the second s	07
		components of the building.	
Q.3	(a)	Enlist various instruments used in linear measurement.	03
	(b)		04
	(c)		
		leveling staff on continuous sloping ground at 30 m intervals. 0.680,	
		1.855, 2.330, 2.885, 3.380, 1.055, 1.860, 2.265, 3.540, 0.835, 0.945, 1.53 2.250. The RL of starting point was 80.750 m. Rule out page of a level	
		and enters the above readings. Find RL of other points by Rise and	
		method and apply necessary checks. Also determine gradient of a line jo	
		first and last point.	
		OR	
Q.3	(a)	Give difference between Surveyors and prismatic compass.	03
	(b)		04 07
	(c)	Explain various aids and devices used to control and regulate traffic.	
Q.4	(a)	Draw sketch of RCC beam.	03
	(b)		04
	(c)	Describes characteristics of contour in brief.  OR	07
Q.4	(a)	Draw traffic signals for (i) speed limit (ii) No parking.	03
r.y	(b)		04
	(c)	Enlist different bonds of Brick and Describe English bond in detail.	07
Q.5	(a)	Explain smart city and its features.	03
Q.5	(a) (b)		04
	(c)		07
1	7	OR	
Q.5	(a)	Explain solid waste management system in brief.	03
	(b)	Explain Energy efficient Building.	04
	(c)	Write short note on BRTS.	07

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