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GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– I & II (NEW) EXAMINATION – WINTER 2019

Subject Code: 3110004   **Date: 08/01/2020**

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.**

			Marks
Q.1	**(a)**	Discuss the impact of infrastructural development on economy of country.	03
	(b)	Enlist various types of cement and discuss the properties of any two.	04
	(c)	Define Remote Sensing. Give the applications of remote sensing.	07
Q.2	**(a)**	Define the following terms: a) Datum b) Change Point c) Contour Interval	03
	(b)	Explain site plan and key plan.	04
	(c)	Enlist various building services and objectives of building services.	07
		OR	
	(c)	Draw a detailed sketch of a cross section of a wall showing the components of the building.	07
Q.3	**(a)**	Give necessity of town planning.	03
	(b)	Differentiate between plane survey and geodetic survey.	04
	(c)	Enumerate various principles of planning and explain any two in detail.	07
		OR	
Q.3	**(a)**	Draw traffic signals for (i) speed limit (ii) No parking	03
	(b)	What are the benefits of Green building	04
	(c)	Briefly outline causes characteristics and effects of slum.	07
Q.4	**(a)**	Enlist Instruments used in chain surveying	03
	(b)	Write short note on FSI	04
	(c)	Describe water borne diseases with control measures.	07
		OR	
Q.4	**(a)**	Give difference between Surveyors and prismatic compass.	03
	(b)	Give full form of: a) DPC b) MH c) FSL d) BBCC	04
	(c)	Explain various aids and devices used to control and regulate traffic.	07
Q.5	**(a)**	Differentiate between W.C.B and Q.B system.	03
	(b)	Explain with sketch the use of Line ranger.	04
	(c)	Write short note on BRTS	07
		OR	
Q.5	**(a)**	Describe with sketches characteristics of contours.	03
	(b)	Write short note on origin of towns.	04
	(c)	Given below are the bearings of lines of a closed traverse ABCD. Calculate the interior angles.	07

Line	F.B
AB	N45°E
BC	N75°E
CD	S35°W
DA	N65°W