Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

Subject code: 142202

Subject Name: Basic Mine Surveying

**Total Marks: 70** 

## **Instructions:**

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	•	inguies to the right material run muritis.	
Q.1	(a)	What is contouring? Explain the interpolation method of contouring.	07
	<b>(b)</b>	What is closing error? Write a note on bowditchøs rule.	07
Q.2	(a)	What is leveling? Write a note on dumpy level	07
	<b>(b)</b>	Write a note on minerøs dial with a neat sketch  OR	07
	<b>(b)</b>	Give the uses and adjustments of minerøs dial	07
Q.3	(a)	Write down the characteristics of contours	07
	<b>(b)</b>	Write a note on tubular and through compass  OR	07
Q.3	(a)	Write a note on contouring on flat ground	07
(	(b)	Explain the procedure of measurement of horizontal angle by theodolite	07
Q.4	(a)	Give the basic concept of triangulation surveying	07
	(b)	Explain shaft depth measurement employing a plumb wire <b>OR</b>	07
Q.4	(a)	Write a note on types of techeometry	07
	<b>(b)</b>	Write a note on fly leveling	07
Q.5	(a)	What is a procedure of determination of constants by	07
	<i>a</i> >	techeometric surveying	0=
	<b>(b)</b>	Explain the leveling by subsidence survey	07
0.5	(a)	OR What are the purposes of traverses? Add a note on	07
Q.5	(a)	precision of theodolite traversing	U/
	<b>(b)</b>	Give the temporary adjustments of theodolite	<b>07</b>

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