Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

	•		17 06/06/2017
Ti	me: 1 tructi 1 2		Marks: 70
Q.1	(a) (b)	Describe Miner's dial with sketch. Write notes on: (1) Trough Compass (2) Tubular compass.	07 07
Q.2	(a) (b)	What is closing error? Write a note on bowditch's rule. Write a note on fly leveling.	07 07
	<b>(b)</b>	OR Give the classifications of the Triangulation survey?	07
Q.3	(a) (b)	Describe Temporary adjustment in detail. Write a note on types of tachometry.	07 07
Q.3	(a) (b)	<b>OR</b> What is Theodolite? Write a note on Vernier theodolite with a neat Sketo What is leveling? Write a note on dumpy level.	ch. <b>07</b>
Q.4	(a) (b)	Describe Permanent adjustment in detail.  List out different types of leveling instruments. Explain any two with ske	etch. <b>07</b>
Q.4	(a) (b)	Write a note on Gyro – theodolite. Write various uses of contour lines on mine plans.	07 07
Q.5	(a) (b)	Write characteristics of contour lines. Write a short note on subsidence survey.  OR	07 07
Q.5	(a) (b)	Explain various Leveling instruments. Explain Shaft depth measurement employing a plumb wire.	07 07

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