Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

Subi	ect (Code:3142202 Date:17-01-2	2024
•		Name: Mine Surveying - I	1024
Time:10:30 AM TO 01:00 PM Total Mark		s:70	
Instru	ıctior		
	1. 2. 3. 4.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
		1 6	MARKS
Q.1	(a) (b)	Write a short note on (i) Plans and Maps and (ii) Scales	03 04
	(c)	Write a brief note on plane table surveying.	07
Q.2	(a) (b)	Define the terms: (i) Line of collimation (ii) Telescope normal (iii) Transiting (iv) Face right observation	03 04
	(c)	Discuss in brief the principles of surveying. OR	07
	(c)		07
Q.3	(a)	What is theodolite? Write its types.	03
	(b) (c)	Write a short note on closing error of traversing. Explain the profile levelling with neat sketch. OR	04 07
Q.3	(a)		03
	(b) (c)	Explain the different parts of theodolite. How to measure a baseline? How to do the selection of site for it?	04 07
Q.4	(a)	Write a short note on Planimeter.	03
	(b) (c)	Define leveling. Discuss the principle and objectives of leveling. Explain the stadia method with neat sketch. OR	04 07
Q.4	(a)	_	03
	(b)		04
	(c)	Describe a miner's dial with its construction, adjustments and use in mining fields.	07
Q.5	(a)		03
	(b)	List out the methods of determining areas and explain any one from it with sketch.	04
	(c)	List out different types of level. Explain Dumpy Level with neat sketch. OR	07
Q.5	(a)		03
	(b)	, , ,	04
	(c)	List out the different methods of measurement of horizontal angle.	07

Explain repetition method.