GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV EXAMINATION - SUMMER 2025

Subject Code:3142202 Date:12-)5-2025		
Subj	ect :	Name:Mine Surveying - I		
Time:10:30 AM TO 01:00 PM Total M			arks:70	
Instru	iction	18:		
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
		Figures to the right indicate full marks.		
	4.	Simple and non-programmable scientific calculators are allowed.	MARKS	
Q.1	(a)	Write the application of surveying in mining.	03	
	(b)	What is theodolite? Write its types.	04	
	(c)	List out the different types of level. Explain Dumpy Level with neat sketch.	07	
Q.2	(a)		03	
	(b)		04	
	(c)	fields.	07	
		OR		
	(c)	Explain the reduction of data with the help of a tacheometry table.	07	
Q.3	(a)	Define the following term: Plans, Maps and Scales.	03	
	(b)	Discuss the classification of triangulation survey.	04	
	(c)		07	
		OR		
Q.3	(a)		03	
	(b)		04	
	(c)	List out the different methods of measurement of horizontal angle. Explain repetition method.	07	
Q.4	(a)		03	
	(b)		04	
	(c)	Explain the profile levelling with neat sketch. OR	07	
Q.4	(a)		03	
	(b)		04	
	(c)		07	
Q.5	(a)		03	
	(b)		04	
	(c)		07	
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Q.5	(a)		03	
	(b)	Write a short note on closing error of traversing.	04	

07

(c) Explain the stadia method with neat sketch.