Seat N	No.: _	Enrolment No		
		GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV • EXAMINATION – SUMMER 2013		
Subject Code: 142202 Subject Name: Basic Mine Surveying Time: 10:30am – 01:00pm Instructions:			Date: 12-06-2013 Total Marks: 70	
		<b>▲</b>		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q-1.		Write a notes on: (1) Trough Compass (2) Tubular compass. Define contour. Explain characteristics of contours with ketch sketch.	07 07	
Q-2.		Describe with the aid of sketches, a miner's dial. What is error of closure? List out various method of adjusting traverse. Explain any one of it in brief.	07	
		OR		
	(b)	Write a note on 'Leveling staff'.	07	
Q-3.		<ul> <li>Define the follow terms:</li> <li>(1) Level line (2) Mean sea level (3) Datum (4) Telescope (5) Gyro-Theodolit</li> <li>(6) Aberration (7) Vertical line.</li> </ul>		
	(D)	What do you mean by tacheometry? Describe the instruments used in it. OR	07	
Q-3.		Explain the repetition and reiteration methods of mea uring angles. Describe the various methods of tacheomeric survey.	07 07	
Q-4.		List out the various method of contouring. Add a note on: 'contouring on steep ground'.	07	
	(b)	Explain the procedure of the leveling to establish underground bench mark. OR	07	
Q-4.		Give uses of contour lines on mine plans.	07	
	(D)	Explain general procedure for field work with reference to tacheometric Survey.	07	
Q-5.		Give classification of leveling. Add a note on fly le eling.	07	
	(b)	Describe the procedure of omitted measurements of traversing. OR	07	
Q-5.	(a)	Explain temporary adjustments of transit theodlite.	07	
-		Give the classifications of the Triangulation survey?	07	

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