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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION - WINTER 2018

Subject Code:2152205 Date:20/11/2018

Subject Name:Advance Mine Surveying

Time: 10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

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

		MARKS	
Q.1	(a) What are the purposes of correlation survey in mining?	03	
	(b) What are the necessary precautions and accuracy required durin correlation survey?	g 04	
	(c) Describe the coplaning method of correlation survey for surface an underground workings of mine.	d 0 7	
Q.2	(a) Write the types of curve.	03	
	(b) Write a note on designation of curve.	04	
	(c) Draw and explain the elements of circular curve.	07	
	OR		
	(c) Draw and explain elements of compound curve.	07	
Q.3	(a) Write a note on tape triangulation.	03	
	(b) Describe the planimeter with its applicability.	04	
	(c) List of linear method of setting out of curve. Explain method whe apex is accessible and apex is inaccessible.	n 07	
	OR		
Q.3	(a) Describe the clinometers with sketch.	03	
	(b) Describe the miner's dial with neat sketch.	04	
	(c) Explain: Rankien's method.	07	
Q.4	(a) Write the steps for preparation and preserve plan and section as pelegal requirement.	r 03	
	(b) Explain: enlargement of plans	04	
	(c) Explain any one method of stope of surveying which are used i metal mines.	n 07	
	OR		
Q.4	(a) Write the use of ediograph	03	
District Mark Bear	(b) Explain various types of mine models	04	
	(c) Write any seven convention symbol for the preparation of mine plan and sections.	s 07	
Q.5	(a) What is GPS? How is it useful in mining industry?	03	
7.0	(b) Describe the scale of vertical photograph.	04	
	(c) Explain in detail GIS and its applicability in mining? OR	07	
0.5	(a) Difference between photographs and maps	03	
Q.S	(b) How photogrammetry is useful in mining engineering?	04	
	(c) Two drives commence from a common starting point. One rises at a angle of 3° going N50°W the other dips 5° going S30°W. What is the direction and grade of the true dip?	n 07	