

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (NEW) - EXAMINATION – SUMMER 2018

Subject Code: 2182201

Date: 04/05/2018

Subject Name: Mine & Mineral Economics

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) Write a note on life of mine.	03	
	(b) Explain Standard cost and forecast cost.	04	
	(c) Describe various functions of national mineral policy 2011.	07	
Q.2	(a) What is sampling?	03	
	(b) List out different sampling methods. Explain any one.	04	
	(c) Describe the classification of reserves.	07	
OR			
Q.3	(c) Write a note on estimation of reserve.	07	
	(a) What is reduction of sample?	03	
	(b) List out the factors affecting the operating cost in mining industry.	04	
Q.3	(c) Write a note on classification of losses.	07	
	OR		
	Q.3	(a) Write a note on sampling pattern.	03
(b) Explain the coefficient of completeness of mineral extraction.		04	
(c) Briefly describe the various methods of estimating future costs.		07	
Q.4	(a) Write a short note on dilution & recovery.	03	
	(b) List out various capital costs of any working open cast mining project.	04	
	(c) Explain any one method of reduction of sample in details.	07	
OR			
Q.4	(a) Explain the various standard controlling factors for evaluation of mineral deposits.	03	
	(b) List out various operating costs of any working underground mining project.	04	
	(c) Explain conservation of mineral resources, scope and their limitations.	07	
Q.5	(a) What is mine valuation?	03	
	(b) Define the royalty, taxes and duties.	04	
	(c) Explain the risky nature of mining industry.	07	
OR			
Q.5	(a) Define following terms: (1) Mineral (2) Ore (3) Gangue	03	
	(b) Explain any one method of mine valuation.	04	
	(c) Explain the role of mining industry in nation's development.	07	
