

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2182201****Date:15/05/2019****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) Explain the economic importance of mineral industry in India.	03
(b) How are mineral losses classified? How are these losses incorporated in mining operations?	04
(c) Describe the controlling factors for evaluating mineral deposit?	07
Q.2 (a) Explain capital cost and operating cost.	03
(b) Explain dilution and recovery.	04
(c) Define the term Sample and Sampling. Explain the importance of sampling in details.	07
OR	
(c) Explain different methods for reduction of sample.	07
Q.3 (a) Explain mining industry considered as risky industry. Why?	03
(b) Explain ore classification in brief.	04
(c) Explain conservation of mineral resources, scope and their limitations.	07
OR	
Q.3 (a) Write a short note on imports and exports.	03
(b) Discuss the contents of national mineral policy.	04
(c) Describe the factors affecting the operating cost in mining industry.	07
Q.4 (a) Explain Royalty, Taxes and Duties.	03
(b) Write a note on Depreciation in mine valuation.	04
(c) Explain the co-efficient of completeness of mineral extraction	07
OR	
Q.4 (a) Explain life of mine in brief.	03
(b) Describe the report on mine valuation.	04
(c) Explain the procedure and precaution of sampling alluvial deposits and dumps.	07
Q.5 (a) Explain different types of sampling.	03
(b) Differentiate between standard cost and future cost.	04
(c) Explain budget and budgetary control in brief.	07
OR	
Q.5 (a) Discuss the precautions to be taken during sampling.	03
(b) Explain different methods employed in sampling.	04
(c) What do you understand by mine valuation? Describe different methods and their application.	07
