

**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.

	<b>MARKS</b>
<b>Q.1</b> (a) Explain the economic importance of mineral industry in India.	<b>03</b>
(b) How are mineral losses classified? How are these losses incorporated in mining operations?	<b>04</b>
(c) Describe the controlling factors for evaluating mineral deposit?	<b>07</b>
<b>Q.2</b> (a) Explain capital cost and operating cost.	<b>03</b>
(b) Explain dilution and recovery.	<b>04</b>
(c) Define the term Sample and Sampling. Explain the importance of sampling in details.	<b>07</b>
<b>OR</b>	
(c) Explain different methods for reduction of sample.	<b>07</b>
<b>Q.3</b> (a) Explain mining industry considered as risky industry. Why?	<b>03</b>
(b) Explain ore classification in brief.	<b>04</b>
(c) Explain conservation of mineral resources, scope and their limitations.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Write a short note on imports and exports.	<b>03</b>
(b) Discuss the contents of national mineral policy.	<b>04</b>
(c) Describe the factors affecting the operating cost in mining industry.	<b>07</b>
<b>Q.4</b> (a) Explain Royalty, Taxes and Duties.	<b>03</b>
(b) Write a note on Depreciation in mine valuation.	<b>04</b>
(c) Explain the co-efficient of completeness of mineral extraction	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) Explain life of mine in brief.	<b>03</b>
(b) Describe the report on mine valuation.	<b>04</b>
(c) Explain the procedure and precaution of sampling alluvial deposits and dumps.	<b>07</b>
<b>Q.5</b> (a) Explain different types of sampling.	<b>03</b>
(b) Differentiate between standard cost and future cost.	<b>04</b>
(c) Explain budget and budgetary control in brief.	<b>07</b>
<b>OR</b>	
<b>Q.5</b> (a) Discuss the precautions to be taken during sampling.	<b>03</b>
(b) Explain different methods employed in sampling.	<b>04</b>
(c) What do you understand by mine valuation? Describe different methods and their application.	<b>07</b>

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