

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019****Subject Code: 2182201****Date: 27/11/2019****Subject Name: Mine & Mineral Economics****Time: 02:30 PM TO 05:00 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 is sampling?	03
	(b) Define the royalty, taxes and duties.	04
	(c) Explain various types of sampling.	07
Q.2	(a) What is mine valuation?	03
	(b) Write a advantage of mine valuation.	04
	(c) Describe various functions of national mineral policy 2012.	07
	OR	
	(c) Describe mineral resource in India.	07
Q.3	(a) Write a note on ore classification.	03
	(b) Write a short note on dilution & recovery.	04
	(c) Write down the methods of sampling (any one).	07
	OR	
Q.3	(a) Define following terms: (1) Mineral (2) Ore (3) Gangue.	03
	(b) Explain the procedure and precaution of sampling alluvial deposits and dumps.	04
	(c) Explain the different software used for Mineral Information System.	07
Q.4	(a) Explain the MIS.	03
	(b) Explain the different between Standard Cost and Future Cost in brief.	04
	(c) Explain the various types of reserve estimate.	07
	OR	
Q.4	(a) Write a short note on budgetary control.	03
	(b) Define following terms.(1) Import(2)Export.	04
	(c) Write a short note on Life of Mine.	07
Q.5	(a) What is reduction of sample?	03
	(b) Explain any one method of mine valuation.	04
	(c) Explain conservation of mineral resources, scope and their limitations.	07
	OR	
Q.5	(a) Write a note on sampling pattern.	03
	(b) Describe their importance and write different precautions taken for sampling.	04
	(c) Explain the role of mining industry in nation's development.	07
