Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION - WINTER • 2014

		oject Code: 182201 Date: 04-12-2014	
	Tin	oject Name: Mine and Mineral Economics ne: 02:30 pm - 05:00 pm ructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a)	What do you mean by conservation of mineral? Add a note on conservation of mineral resources.	
	(b)	Describe mineral information system with schematic layout.	07
Q.2	(a)	Explain the following terms: (1) Sample (2) Recovery (3) Depletion of mineral (4) Ore	07
	(b)	What is small scale mining? Add a note on socio-economic importance of small scale mining.	07
		OR	
	(b)	Write a note on: "life of mine".	07
Q.3	(a) (b)	How tonnage factors and mineable ore limitations are calculated? Explain the co-efficient of completeness of mineral extraction. OR	07 07
Q.3	(a) (b)	Enlist the factors affecting operating cost in mining operation. Discuss the contents of national mineral policy.	
Q.4	(a) (b)	Describe the risky nature of mining industry. Describe various sampling methods with andure. OR	07 07
Q.4	(a) (b)	Define reduction of sample. Explain method of reduction of sample with appropriate figure. Explain the methods of mine valuation.	07 07
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Q.5	(a) (b)	Write a note on estimation of reserve. Describe the Ore Classification.	07 07
Q.5	(a)	OR Write a note on Overview of Indian mining industry.	07
4.	(b)	Give the brief description following terms: (i) Dilution (ii) Mine valuation.	07
