Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION – SUMMER 2013

Subj	ect (Code: 162201 Date: 24-05-2013	
Subj	ect]	Name: Economic Geology - I	
Tim	e: 1(0.30 am - 01.00 pm Total Marks: 70	
Instru	ıction	is:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	What is the difference between rock forming minerals and economic minerals? Also economic classification of minerals.	07
	(b)	What are metallic minerals, non-metallic minerals and mineral fuel? Explain each with 3 examples and its uses.	07
Q.2	(a) (b)	Write a note on ore and gauge minerals. Classify the economic mineral forming processes. OR	07 07
	(b)	What is the scope of the study for Mineral Economics? Add a note on õNational Mineral Policyö	07
Q.3	(a) (b)	Write a note on mineral forming processes in Igneous rocks. Which economic deposits are associated with acidic, basic and ultrabasic rocks explain with example.	07 07
		OR	
Q.3	(a)	How pegmatite is important in economic geology? Which economic minerals are associated with pegmatite.	07
	(b)	Write a brief note on role of intrusive rocks in economic mineralogy	07
Q.4	(a)	What is contact metasomatism? Which minerals and ores are associated with it? Give examples	07
	(b)	What is contact metasomatism? Which minerals and ores are associated with it? Give examples.	07
		OR	
Q.4	(a)	Give mode of occurrence and genesis of Indian metallic deposits for Copper and Chromium	07
	(b)	Gujarat coast has most cement factories? Justify the statement.	07
Q.5		 Write Note on any 2 1. Genetic classification of minerals based on õDepth ó Temperature criteria. 2. Fissure vein and saddle reefs. 3. Gold field of India. 4. Use of Gypsum deposits. 	14
