

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2018

Subject Code:2162201

Date:07/12/2018

Subject Name:Ecology Geology-I

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) Briefly narrate the importance of minerals in national economy.	03
	(b) Discuss how the rock forming minerals are different from economic minerals.	04
	(c) Describe the mineral resources of India.	07
Q.2	(a) Briefly explain types of hydrothermal deposits.	03
	(b) Differentiate between the metallic and non-metallic minerals.	04
	(c) Giving examples, define the terms: (i) Mineral (ii) Rock (iii) Ore (iv) Tenore.	07
	OR	
	(c) Describe important mineral forming processes in igneous rocks.	07
Q.3	(a) Give the difference between intrusive and extrusive rocks.	03
	(b) Explain the stages and deposition of metasomatic replacement.	04
	(c) Describe the Indian Pegmatite Belts and their significance in Indian economy.	07
	OR	
Q.3	(a) What are xenothermal deposits?	03
	(b) Write about crustification and comb structures.	04
	(c) Discuss how metamorphism is associated with ore formation.	07
Q.4	(a) Explain why Gujarat coast has many cement factories.	03
	(b) Describe the various uses of Gypsum deposits.	04
	(c) Write the mineralogy, geographic distribution, geological distribution and uses of Copper deposits.	07
	OR	
Q.4	(a) Write the details of minerals used as Abrasives.	03
	(b) Describe different types of cements.	04
	(c) Give the mineralogy, origin, Indian occurrences and uses of Coal.	07
Q.5	(a) Name important nuclear minerals occurring in India with their geographic distribution.	03
	(b) Describe important precious and semi-precious stones.	04
	(c) Narrate the mineralogy, origin, Indian occurrences and uses of Tungsten.	07
	OR	
Q.5	(a) Give the Indian occurrences and uses of important Nobel metals.	03
	(b) Write about the rocks and minerals needed for fertilizer industry.	04
	(c) Give the mineral composition, mode of occurrence and uses of important minerals used in ceramic industry.	07
