

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER- VI (New) EXAMINATION – WINTER 2019**

**Subject Code: 2162201**

**Date: 13/12/2019**

**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) Give the signification of clay minerals in ceramic industry.	03
	(b) How is classification of minerals done as per the deposit forming process?	04
	(c) Describe origin of hydrothermal deposits and its various forms.	07
Q.2	(a) Describe Gold deposits of India.	03
	(b) How are rocks forming minerals different from economic minerals?	04
	(c) Explain about minerals used in chemical fertilizers.	07
	<b>OR</b>	
	(c) What are metallic minerals, non-metallic minerals and mineral fuel? Explain each with examples and its uses.	07
Q.3	(a) Write a short note Cement industry of Gujarat.	03
	(b) Give mode of occurrence and genesis of Silver and Zinc metallic deposits.	04
	(c) Describe the relation between volcanogenic process and economic mineral deposits.	07
	<b>OR</b>	
Q.3	(a) Explain importance of stock works in cavity filling deposits?	03
	(b) Describe the nature and quality of the raw materials that are suitable for the glass and the paint industry.	04
	(c) Discuss briefly the various processes of formation of mineral deposits in nature. Add note on importance of minerals in national economy	07
Q.4	(a) Write about chromium deposits of India.	03
	(b) Write Bateman's scheme of classification of mineral deposits.	04
	(c) What are the different economic deposits associated with acidic and basic rocks?	07
	<b>OR</b>	
Q.4	(a) Describe about placer deposits.	03
	(b) Explain refractory minerals.	04
	(c) Write a short note on Xenothermal deposits	07
Q.5	(a) Describe about magmatic deposits.	03
	(b) Describe characteristics and economic importance of skarn deposits.	04
	(c) Explain mesothermal and epithermal deposits	07
	<b>OR</b>	
Q.5	(a) Discuss how the rock forming minerals are different from economic minerals.	03
	(b) Which are important gemstones? Explain the origin and mode of occurrence of Diamond in India.	04
	(c) Describe classification of coal deposits and mention percentage of carbon within them.	07

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