Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2016

Subject Code:2162201 Date:19/05/2016 Subject Name: Ecology Geology-I Time: 10:30 AM to 01:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 (a) Write a brief note on ore deposit, ore minerals, gauge minerals and tenor. 07 (b) Discuss briefly the various processes of formation of mineral deposits in nature. 07 Add note on importance of minerals in national economy. Describe the magmatic deposits formed as early magmatic crystallization. **Q.2** 07 Write Bateman's scheme of classification of mineral deposits. **07 (b)** What are metallic minerals, non-metallic minerals and mineral fuel? 07 Explain each with examples and its uses. **07** 0.3 What are the different types of coal? Give in brief, the mode of formation of coal. (b) Describe the nature and quality of the raw materials that are suitable for the glass 07 and the paint industry. OR (a) Give an outline of the process of formation of the following mineral deposits with Q.3 **07** two examples of each type. (I) Pegmatitic (II) Contact Metasomatic. Explain the hydrothermal deposits occur in a veins and cavity fillings forms. 07 **Q.4** (a) Give mode of occurrence and genesis of Gold and Zinc metallic deposits. 07 What is hydrothermal solution? Explain mesothermal and epithermal deposits. **07 Q.4** (a) What are refractories? Give the acidic refractory minerals. **07** Describe characteristics and economic importance of skarn deposits. 07 **Q.5** Write note on any TWO 14 (1) Cement industry of Gujarat. (2) Gemstones (3) Nuclear Minerals. (4) Mineral fuel petroleum. *******

1