

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (old) - EXAMINATION – SUMMER 2018****Subject Code:182207****Date:07/05/2018****Subject Name:Geological Exploration of Mineral Deposits (Department Elective II)****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.

- Q.1** (a) Write a note on remote sensing. **07**
(b) What is exploration? Give the phases of exploration. **07**
- Q.2** (a) What is boring? Write a note on selection of site for boreholes. **07**
(b) What are the applications of gravity methods in mineral exploration? **07**
- OR**
- (b) Write about various fishing tools and their uses. **07**
- Q.3** (a) What are the characteristics and principles of stereoscopic images? **07**
(b) What is coring? Explain core – barrels. **07**
- OR**
- Q.3** (a) What are the applications of Aerial photograph in identification of geological structures? **07**
(b) Explain Lithological and stratigraphic guides. **07**
- Q.4** (a) What are the characteristics of a satellite image? **07**
(b) What are different guides to ore location? **07**
- OR**
- Q.4** (a) Differentiate between percussive drilling and rotary drilling. **07**
(b) Write short note on Underground mapping. **07**
- Q.5** (a) Explain different methods of geochemical exploration? **07**
(b) Explain the merit & demerit of Aerial Photography. **07**
- OR**
- Q.5** (a) Differentiate between surface and subsurface exploration. **07**
(b) Write a note on directional drilling. **07**
