

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VIII EXAMINATION – SUMMER 2016****Subject Code:182207****Date:16/05/2016****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) Differentiate between surface and subsurface exploration. **07**  
(b) Describe resistivity method of geophysical exploration. **07**
- Q.2** (a) Explain Magnetic method of exploration and its application. **07**  
(b) What are the different techniques of seismic methods of exploration? **07**
- OR**
- (b) What are the different types of map scale? Explain its importance. **07**
- Q.3** (a) Differentiate between vertical and oblique photographs. **07**  
(b) How is interpretation satellite imageries carried out? **07**
- OR**
- Q.3** (a) What are the different methods of geochemical exploration? **07**  
(b) Explain hydro-geological exploration. **07**
- Q.4** (a) What precautions are to be taken in carrying geo-chemical exploration? **07**  
(b) How is site selection done for boreholes? **07**
- OR**
- Q.4** (a) Explain the different methods of drilling? **07**  
(b) What are the regional and local guides to ore? **07**
- Q.5** Write short note on any two : **14**  
1. Core recovery.  
2. Borehole data.  
3. Fishing tools.  
4. Bottoming and Zoning of mineral deposits.

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