

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2182207****Date: 03/12/2018****Subject Name: Geological Exploration Mineral Deposits****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.

- Q.1** (a) Write a note on Surface Exploration. **03**
(b) Write a short note on Underground Mapping. **04**
(c) Write merits & demerits of remote sensing. **07**
- Q.2** (a) Describe various purpose of exploration. **03**
(b) Write short note on Remote Sensing. **04**
(c) What precautions are to be taken in carrying geo-chemical exploration? **07**
- OR**
- (c) What is seismic method? List out the instruments used in it and its application In oil exploration. **07**
- Q.3** (a) Describe the airborne survey. **03**
(b) Write a note on Underground drilling. **04**
(c) Write a short note on GIS. **07**
- OR**
- Q.3** (a) Define sample and sampling. **03**
(b) Define coring. Add a note on wire line coring. **04**
(c) Explain gravity methods of exploration in brief. **07**
- Q.4** (a) Describe the objectives of boring. **03**
(b) Explain the merit & demerit of Aerial Photography. **04**
(c) Define exploration. Explain the basic principle of exploration. **07**
- OR**
- Q.4** (a) What do you mean by core recovery? **03**
(b) Write a short note on diamond drilling. **04**
(c) Explain different methods of geochemical exploration? **07**
- Q.5** (a) What are the various method of boring? **03**
(b) Describe purpose of exploration. **04**
(c) Differentiate between surface and sub-surface exploration. **07**
- OR**
- Q.5** (a) What is bore hole survey? **03**
(b) Write the advantages & disadvantages of GPS. **04**
(c) Explain the differential between percussive and rotary boring. **07**
