

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III • EXAMINATION – WINTER • 2014****Subject Code: 2132203****Date: 18-12-2014****Subject Name: Geology-1****Time: 02.30 pm - 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) Explain internal structure of the earth revealed by the seismological evidences with a neat figure. **07**
- (b) Describe: earth as a planet in solar system. **07**
- Q.2** (a) Define the terms: weathering, erosion and denudation. Describe in detail chemical weathering of rocks. **07**
- (b) Write a note on river meandering and sand dunes. **07**
- OR**
- (b) Enlist the various branches of geology and add the note on its important in mining engineering. **07**
- Q.3** (a) Describe: Felspar group of minerals. **07**
- (b) Explain about dip and strike. **07**
- OR**
- Q.3** (a) Give the physical properties of quartz. **07**
- (b) What are folds? Give different part of folds. **07**
- Q.4** (a) Explain fundamental law of stratigraphy in detail. **07**
- (b) How remote sensing use for mineral exploration. **07**
- OR**
- Q.4** (a) Write a note on upper vindhyas system. **07**
- (b) What is drilling? Give short note on drilling methods. **07**
- Q.5** (a) What are the plate tectonics? Write a note on plate boundary. **07**
- (b) Explain two erosional features developed by wind. **07**
- OR**
- Q.5** (a) Give the name of physical properties of minerals. Add a note on specific gravity. **07**
- (b) Differentiate the terms: Conformity and Unconformity. Discuss various types of unconformity with diagrams. **07**
