

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 132203**Date: 03-01-2013****Subject Name: Geology - I****Time: 10.30 am – 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) Explain internal structure of the earth through seismic evidence. **07**
(b) What are plate tectonics? Write a note on plate boundary. **07**

- Q.2** (a) Write the note on physical weathering. **07**
(b) Explain Nebular hypothesis for the origin of the earth. **07**

OR

- (b) What are the evidences of continental drifting? Write a note on Wagner's hypothesis. **07**

- Q.3** (a) Explain any two erosional features developed by wind. **07**
(b) Explain stages of river development. **07**

OR

- Q.3** (a) Write the note on glacial deposits. **07**
(b) Write the notes on river meandering and ox-bow lake. **07**

- Q.4** (a) What are the physical properties of minerals? Write a note on Hardness of minerals. **07**
(b) What are the folds? Give the different parts of fold. **07**

OR

- Q.4** (a) Define dip and strike. Write a note on types of dip. **07**
(b) Write the notes on normal fault and reverse fault. **07**

- Q.5** (a) Write a short note on Upper Vindhyan system. **07**
(b) Give the economical importance of Dharwar rocks. **07**

OR

- Q.5** (a) Write a note on Delhi system. **07**
(b) What are the basic principles of stratigraphy? **07**
