

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-IV • EXAMINATION – WINTER • 2014**

**Subject Code: 142203****Date: 31-12-2014****Subject Name: Geology-II****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) What is petrology? How igneous rocks are formed and what are the types of Igneous rocks. **07**
- (b) Describe the texture of sedimentary rocks. **07**
- Q.2** (a) Explain different metamorphic facies and grade. **07**
- (b) Explain forms of igneous structure with figure. **07**
- OR**
- (b) Describe the sedimentary structure with figure. **07**
- Q.3** (a) What are tremors? Explain the causes of earthquake. **07**
- (b) What is volcano? Explain the types of volcano. **07**
- OR**
- Q.3** (a) What are the geological investigations that are to be carried in tunnel location? **07**
- (b) Write about the measures of prevention of landslides. **07**
- Q.4** (a) Write a note on Thar desert. **07**
- (b) Classify and describe Rhyolite, Shale, Phyllite. **07**
- OR**
- Q.4** (a) Write a note on mesozoics of Gujarat. **07**
- (b) What are the geological investigation are required for dam site location. **07**
- Q.5** (a) Write note on any two : **14**
1. Mountain genesis.
  2. Multigeneration folding.
  3. Lineation and Schistosity.
  4. Seismic zones of India.

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