

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV • EXAMINATION – SUMMER • 2014****Subject Code: 142203****Date: 23-06-2014****Subject Name: Geology-II****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) What are tremors? What are the causes of Earthquake and how is it measured? **07**
(b) What is petrology? Differentiate Igneous, Sedimentary and Metamorphic rocks with proper base. **07**
- Q.2** (a) What is tunnel? What are the geological factors affecting in the design of a tunnel? **07**
(b) What are the types of mountains and explain their genesis. **07**
- OR**
- (b) Classify the Igneous rocks on various basis. **07**
- Q.3** (a) Describe the texture and structures of sedimentary rocks. **07**
(b) What are the agents of metamorphism? Explain the faces of metamorphism. **07**
- OR**
- Q.3** (a) What are the geological investigations carried out at a Dam site? **07**
(b) What is landslide? What are the preventive measures followed for landslides. **07**
- Q.4** (a) Explain the petrological characteristics of – Granite, Gabbro, Rhyolite, Sandstone, Dolomite, Phyllite, and Gneiss. **07**
(b) Explain Sills and Dykes. **07**
- OR**
- Q.4** (a) Describe the mesozoics of Gujarat and Rajasthan. **07**
(b) What are the factors responsible for multigeneration of folding? **07**
- Q.5** Write note on any two :- **14**
1. Unicomponent and Bicomponent Magma.
 2. Volcanoes and its types.
 3. Siesmic-Zones of India.
 4. Thar Desert.
 5. Indogangetic Alluvium.
