

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-IV • EXAMINATION – SUMMER 2013****Subject Code: 142203****Date: 14-06-2013****Subject Name: Geology-II****Time: 10:30am – 01:00pm****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) Define Earthquake? How is it measured? Also give seismic zones of India. **07**
(b) What are the geological investigations required for a tunnel site? **07**
- Q.2** (a) What are the geological criteria for selection of a Dam site? **07**
(b) What are Igneous rocks? Give structures of Igneous rocks **07**
- OR**
- (b) Classify the Sedimentary rocks on the basis of textures and structures. **07**
- Q.3** (a) How are landslides prevented? **07**
(b) What are the different forms of Igneous rocks? **07**
- OR**
- Q.3** (a) What are the types of mountain? Explain mountains genesis & differentiation. **07**
(b) What is unconformity in rocks? Explain different types of unconformity. **07**
- Q.4** (a) Explain the formation of sedimentary rocks. Explain types of sedimentary rocks. **07**
(b) How are metamorphic rocks formed? Explain different metamorphic grades. **07**
- OR**
- Q.4** (a) Explain characteristics of Syenite, Limestone, Schist. **07**
(b) Write a note on volcano and types of volcano. **07**
- Q.5** Write Notes on Any Two:- **14**
1. Deccan Traps.
 2. Lithologic origin of Indo-gangetic planes.
 3. Jurassics of Kutch.
 4. Water in tunnel.
 5. Thar dessert.
