

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

Subject code: 142203**Date: 29/12/2012****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 Earthquake? How it occurs? What are the geological causes of Earthquake? **07**
(b) What are the geological hazards at a tunnel site? **07**
- Q.2** (a) What are the geological investigations that are to be carried out at a Dam site? **07**
(b) What are the preventive measures of a landslide? **07**
OR
(b) What are the types of mountain? Differentiate mountains on the basis of genesis. **07**
- Q.3** (a) What are Igneous rocks? Give tabular classification of Igneous rocks. **07**
(b) What are the different forms of Igneous rocks? **07**
OR
- Q.3** (a) Classify the Igneous rocks on the basis of textures and structures. **07**
(b) What is jointing in rocks? Explain different types of joints. **07**
- Q.4** (a) How are sedimentary rocks formed? Explain types of sedimentary textures. **07**
(b) How are metamorphic rocks formed? What are different types of metamorphic facies and grades. **07**
OR
- Q.4** (a) Explain characteristics of Granite, Sandstone, Gneiss. **07**
(b) Write a note on volcanic products and the Pacific ring of fire. **07**
- Q.5** Write Notes on Any Two:- **14**
1. Deccan Traps.
2. Lithologic origin of Indo-gangetic plains.
3. Jurassics of Kutch.
4. Siesmic zones of India.
5. Structures of Sedimentary rocks.
