

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 142203**Date: 08/06/2017****Subject Name: Geology-II****Time: 10:30 AM to 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 is earthquake? What are the geological causes of earthquake? **07**
(b) What is petrology? What are the types of rock and how are they formed? **07**
- Q.2** (a) What are the geological investigations carried out at dam site? **07**
(b) What is volcano? What are the types of volcano? Explain. **07**
- OR**
- (b) Explain the structures of igneous rocks. **07**
- Q.3** (a) Give classification of igneous rock. **07**
(b) Describe the textures of sedimentary rocks. **07**
- OR**
- Q.3** (a) What is metamorphism? Explain the metamorphic facies. **07**
(b) Write a note on mesozoics of Gujarat **07**
- Q.4** (a) What are the hazards in tunneling? **07**
(b) Explain the types of mountain. **07**
- OR**
- Q.4** (a) Explain Thar desert. **07**
(b) Describe crystallization of unicomponent and bicomponent magma. **07**
- Q.5** Write a note on any two: **07**
1. Gondwana super group.
 2. Petrology of granite and basalt.
 3. Characteristics of Marble and Quartzite.
 4. Seismic zones of India.
