Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV (New) EXAMINATION - WINTER 2015

Code:2142203 Date:01/01/2016

Subject Code:2142203 Subject Name: Geology-II

Time: 2:30pm to 5:00pm 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) (b)	Describe the different textures and structures of igneous rock. What are metamorphic rocks? Write about agents and types of metamorphism.	07 07
Q.2	(a) (b)	Discuss about different processes of mountain genesis. Narrate various geological factors influencing the excavation of tunnels. OR	07 07
	(b)	Describe the following rocks: Granite, Phyllite and Marble	07
Q.3	(a)	How are sedimentary rocks formed? Give the type of textures seen in sedimentary rocks.	07
	(b)	What is a volcano? Classify the volcanoes on the basis of their state of activity. Add a note on the pacific ring of fire.	07
		OR	
Q.3	(a)	What are landslides? How can these be prevented?	07
	(b)	Describe the significance of seismic zones of India in aseismic design of structures.	07
Q.4	(a)	What are earthquakes? Narrate the geological causes of their occurrence.	07
•	(b)	Give the details of Jurassic of Spiti.	07
	()	OR	
Q.4	(a)	What is multi-generation folding?	07
v.	(b)	Explain different metamorphic facies and grades.	07
Q.5	(a)	Write Note on: Lineation and schistosity	07
	(b)	Write Note on : Siwalik Supergroup	07
	` ′	OR	
	(a)	Write Note on :Mesozoic formations of Gujarat	07
	(b)	Write Note on :Types of joints	07
