

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV(New) EXAMINATION – SUMMER 2016

Subject Code:2142203**Date:06/06/2016****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.

		MARKS
Q.1	Short Questions	14
	1 What is epicenter?	
	2 Earth Quake is measured by which instrument?	
	3 What type of rock is rhyolite?	
	4 What type of rock is marble?	
	5 What type of rock is conglomerate?	
	6 Clastic texture is found in which rock type?	
	7 Dyke is structure of which rock type?	
	8 How many earth quake zones are there in India?	
	9 What are the agents of metamorphism?	
	10 What is the mouth of volcano called?	
	11 CIPW is related to classification of which rock type?	
	12 What is the chemical composition of Limestone?	
	13 Define tunnel	
	14 Where are major Mesozoic rocks found in Gujarat?	
Q.2	(a) What are the causes of Earth Quake?	03
	(b) What are the different types of mountain?	04
	(c) Give the tabular classification of Igneous rocks.	07
	OR	
	(c) What is joint? Explain the type of joints.	07
Q.3	(a) What are the different forms of Igneous rocks?	03
	(b) Describe Granite and Basalt.	04
	(c) Explain the structures of Igneous rocks with figure.	07
	OR	
Q.3	(a) How are sedimentary rocks formed?	03
	(b) Explain Sandstone and Limestone.	04
	(c) Explain different texture of sedimentary rocks.	07
Q.4	(a) What are the different metamorphic facies?	03
	(b) Explain schistosity.	04
	(c) What is unconformity? Explain the types of unconformity with diagram.	07
	OR	
Q.4	(a) Explain the role of agents of metamorphism.	03
	(b) Describe the structure of metamorphic rocks.	04
	(c) Write a note on Mesozoics of Gujarat.	07
Q.5	(a) What are the reasons of landslide?	03
	(b) What are various geological factors affecting a tunnel site?	04
	(c) What investigation is to be carried out at a dam site?	07

OR

- | | | | |
|------------|-----|--|-----------|
| Q.5 | (a) | Classify the types of tunnels. | 03 |
| | (b) | Write a note on Marwar super group. | 04 |
| | (c) | What are the preventive measures of landslide? | 07 |
