

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION – WINTER 2018

Subject Code:2142203

Date:10/12/2018

Subject Name:Geology-II

Time: 02:30 PM TO 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.

		MARKS
Q.1	(a) What are mountains? Write a brief note on tectonic mountains.	03
	(b) Define a volcano. Describe the types of volcanoes.	04
	(c) What is earthquakes? How are they measured? Discuss the effects of earthquakes.	07
Q.2	(a) Describe sills and dykes with sketches.	03
	(b) Explain different forms of igneous rocks with figure.	04
	(c) Define petrology. Describe the formation of igneous rocks.	07
	OR	
	(c) What is the different between magma and lava? Explain the various structures developed due to the mobility of magma or lava in igneous rocks.	07
Q.3	(a) Describe in brief the textures of sedimentary rocks.	03
	(b) Describe the sedimentary structures with figure.	04
	(c) Discuss the Lithology, life and economical importance with reference to Gondwana Supergroup of formations.	07
	OR	
Q.3	(a) How are metamorphic rocks formed?	03
	(b) Describe different agents of metamorphism.	04
	(c) What is metamorphism? Describe different texture of metamorphic rocks.	07
Q.4	(a) Write a note on multigeneration folding.	03
	(b) Discuss the different between faults and joints.	04
	(c) Define jointing in rocks. Describe different types of joints observed in igneous rocks.	07
	OR	
Q.4	(a) Describe economics of deccan traps.	03
	(b) Describe the Mesozoics of Gujarat and Rajasthan.	04
	(c) Discuss critically role of ground water conditions that influences the design, stability and cost of tunneling.	07
Q.5	(a) List out different types of igneous intrusion with brief description.	03
	(b) Discuss the structural investigation carried out in rocks occurring a dam sites.	04
	(c) Define a tunnel. Discuss the geological factors affecting the design of a tunnel.	07
	OR	
Q.5	(a) What are seismic waves?	03
	(b) Explain characteristics of Granite, Gneiss and Limestone.	04
	(c) What are landslides? What are the preventive measures followed for control of landslides.	07
