Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) - EXAMINATION - SUMMER 2017

Subject Code: 2142203 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.

			MARKS	
Q.1		Short Questions	14	
	1	Give the name of major subgroups of igneous rocks.		
	2	Write the definition of texture of igneous rock.		
	3	What is decay and disintegration of sedimentary rocks?		
	4	Give the names of seismic intensity scale.		
	5	List out the major effects of earthquake.		
	6	What are fumeroles?		
	7	What is stratification in sedimentary rocks?		
	8	Enumerate the kinds of metamorphism.		
	9	Write the name of types of tunnel.		
	10	Which geological factors influences the dam site?		
	11			
	12	Difference between dyke and sill.		
	13	In which system of stratigraphy Umia Shale found?		
	14	What is the difference between fault and joint?		
Q.2	(a)	Give definition of earthquake. Write note on magnitude of	03	
		an earthquake.		
	(b)	Differentiate mountains on the basis of genesis.	04	
	(c)	Write an account of texture of igneous rocks.		
		OR		
	(c)	Explain the characteristics of Granite, Sandstone and Schist.	07	
Q.3	(a)	Seismic zones of India.	03	
	(b)	Describe the intensity of an earthquake.	04	
	(c)	Describe the elements of texture of igneous rocks.	07	
		OR		
Q.3	(a)	How are sedimentary rocks formed?	03	
	(b)	Explain agents of metamorphic rocks.	04	
	(c)	What is volcano? Explain types of volcanoes.	07	
Q.4	(a)	Write brief note on Indogangetic alluvium.	03	
	(b)	Write lithology of Marwar Supergroup and Cambrian of salt range.	04	
	(c)	What is unconformity? Explain different types of	07	
		unconformities.		
	OR			
Q.4	(a)	Explain "Jurassic of Kutch".	03	
	(b)	Discuss the lithology and economic importance of	04	
		Gondwana Supergroup.		
	(c)	How the sedimentary rocks are classified? Give the classification of clastic rocks.	07	

Q.5	(a)	Define the terms lineation and schistosity.	03
	(b)	Give the classification of joints based on geometry.	04
	(c)	What is tunnel? How the geological factors influences the	07
		tunnel excavation?	
		OR	
Q.5	(a)	Write note on Thar Dessert.	03
	(b)	Describe the preventive measures to avoid landslide.	04
	(c)	How the characteristics of structural features influence the selection of dam site.	07
