Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Subject Code: 132203 Subject Name: Geology - I Time: 02.30 pm - 05.00 pm		Code: 132203 Date: 18-12-2014	Date: 18-12-2014	
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	1. 2. 3.	T		
Q.1	(a)	What are the different branches of geology and how are they related to engineering application?	07	
	(b)	Enlist the physical properties of minerals and explain form and structure and hardness.	07	
Q.2	(a) (b)	What is weathering? Explain types of chemical weathering with example. What is delta? Write a note about types of delta with figure.	07 07	
	(,-)	OR		
	(b)	Describe the types of Sand dunes with diagram.	07	
Q.3	(a) (b)	Compare the physical properties of ore forming and industrial minerals. Explain the peculiarities of pyroxene and amphibole mineral families.	07 07	
	(0)	OR	U1	
Q.3	(a)	Describe the physical properties of iron ore minerals.	07	
	(b)	Explain the principles of stratigraphy.	07	
Q.4	(a)	Explain the typical fault terminology with figure.	07	
	(b)	Classify the fold on the basis of axial plane. OR	07	
Q.4	(a)	Explain two features of fold and fault recognisation in the field.	07	
νι	(b)	Explain mohorovichic, Gutenberg discontinuity.	07	
Q.5	(a)	Explain Delhi super group and Dharwar series.	07	
	(b)	What is drilling and classify different drilling methods. OR	07	
Q.5	(a)	What are the advantages and limitations of drilling?	07	
~	(b)	Explain different methods of subsurface exploration.	07	
