Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–IV • EXAMINATION – SUMMER 2013

Subject Code: 142203 **Date: 14-06-2013**

Subject Name: Geology-II

Time: 10:30am – 01:00pm **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)**	Define Earthquake? How is it measured? Also give seismic zones of India.	**07**
	(b)	What are the geological investigations required for a tunnel site?	**07**
Q.2	**(a)**	What are the geological criteria for selection of a Dam site?	**07**
	(b)	What are Igneous rocks? Give structures of Igneous rocks	**07**
		OR	
	(b)	Classify the Sedimentary rocks on the basis of textures and structures.	**07**
Q.3	**(a)**	How are landslides prevented?	**07**
	(b)	What are the different forms of Igneous rocks?	**07**
		OR	
Q.3	**(a)**	What are the types of mountain? Explain mountains genesis & differentiation.	**07**
	(b)	What is unconformity in rocks? Explain different types of unconformity.	**07**
Q.4	**(a)**	Explain the formation of sedimentary rocks. Explain types of sedimentary rocks.	**07**
	(b)	How are metamorphic rocks formed? Explain different metamorphic grades.	**07**
		OR	
Q.4	**(a)**	Explain characteristics of Syenite, Limestone, Schist.	**07**
	(b)	Write a note on volcano and types of volcano.	**07**
Q.5		Write Notes on Any Two:-	**14**

1. Deccan Traps.
2. Lithologic origin of Indo-gangetic planes.
3. Jurassics of Kutch.
4. Water in tunnel.
5. Thar dessert.

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