Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER – IV • EXAMINATION – WINTER 2012

Subj	Subject code: 142203 Date: 29/12/		2012
•		Name: GEOLOGY-II	
		30 pm - 05.00 pm Total Marks	: 70
Instr			
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
Q.1	(a)	What is Earthquake? How it occurs? What are the geological causes of Earthquake?	07
	(b)	What are the geological hazards at a tunnel site?	07
Q.2	(a)	What are the geological investigations that are to be carried out at a Dam site?	07
	(b)	What are the preventive measures of a landslide? OR	07
	(b)	What are the types of mountain? Differentiate mountains on the basis of genesis.	07
Q.3	(a) (b)		07 07
Q.3	(a) (b)	Classify the Igneous rocks on the basis of textures and structures.	07 07
Q.4	(a)	How are sedimentary rocks formed? Explain types of sedimentary textures.	07
	(b)	How are metamorphic rocks formed? What are different types of metamorphic facies and grades.	07
Q.4	(a)	OR Explain characteristics of Granite, Sandstone, Gneiss.	07
4. 4		Write a note on volcanic products and the Pacific ring of fire.	07
Q.5		 Write Notes on Any Two:- Deccan Traps. Lithologic origin of Indo-gangetic planes. Jurassics of Kutch. Siesmic zones of India. Structures of Sedimentary rocks. 	14
