GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-I EXAMINATION – WINTER 2015

		Code: X10602 Date: 30/12/2015	
Time Instru 1. 2. 3.	bject Name: Engineering GeologyTotal Marks: 70me: 10:30am to 01:00pmTotal Marks: 70structions:1.1. Attempt any five questions.2.2. Make suitable assumptions wherever necessary.3.3. Figures to the right indicate full marks.4.4. Each question carry equal marks (14 marks)		
Q.1	(a)	Explain functioning of rock cycle.	07
	(b)	Classify igneous rocks based on their depth of formation and silica content with suitable examples.	07
Q.2	(a)	Explain temperature and pressure as agents of rock metamorphism.	07
	(b)	Describe properties of hardness and cleavage in minerals with suitable examples.	07
Q.3	(a)	What are primary structures in rocks? Explain origin of bedding plane in sedimentary rocks.	07
	(b)	Write an illustrative note on dyke and sill.	07
Q.4	(a)	Explain role of temperature in mechanical weathering of rocks giving suitable examples.	07
	(b)	What are different preventive measures for landslide?	07
Q.5	(a)	Explain origin of sedimentary rocks and classify them with suitable examples.	07
	(b)	Discuss the merit and demerit; when dam is proposed on sedimentary rocks.	07
Q. 6	(a)	Explain porosity and permeability of rocks with suitable examples.	07
	(b)	Explain confined and unconfined aquifers.	07
Q. 7	(a) (b)	What is a geological fault? Describe different components of a typical fault. Give an illustrative description of a typical fold.	07 07
