Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-I • EXAMINATION – SUMMER 2013

Subject Code: X10602Date: 11-06-20Subject Name: Engineering GeologyTime: 02.30 pm - 05.00 pmTotal Marks:Instructions:1. Attempt any five questions.Total Marks:1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.4. Each question carries equal marks (14 marks)			
Q.1	(a)		07
	(b)	study of geology in Civil Engineering. Enlist the important physical properties of minerals. Describe the streak and hardness properties of minerals with suitable examples.	07
Q.2	(a) (b)		07 07
Q.3	(a) (b)	Write detailed notes on factors and types of metamorphism. Describe how igneous rocks are formed.	07 07
Q.4	(a)	Narrate the merits and demerits of a tunnel alignment in folded sequence of rocks.	07
	(b)	Write brief notes on the following topics: (i) Rock cycle (ii) Site selection criteria for dams	07
Q.5	(a)	•	07
	(b)	Write an explanatory note on water holding properties of rocks.	07
Q. 6	(a) (b)	Describe how the landslides are caused. Write brief notes on the following topics: (i) Dip and strike of a bed (ii) Components of a typical fault	07 07
Q. 7	(a) (b)	Describe important engineering properties of a good building stone. Write brief notes on the following topics: (i) Sills and dykes (ii) Applications of remote sensing and GIS	07 07
