Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER- I EXAMINATION - SUMMER 2015

Su	bject	t Code:X10602 Date:28/05/2015	5	
Subject Name: Engineering Geology Time: 02.30pm-05.00pm Instructions:		02.30pm-05.00pm Total Marks: 70	Total Marks: 70	
	1. 2. 3.	<u>I</u>		
Q.1	(a) (b)	Explain importance of engineering geology in the field of Civil engineering. Differentiate weathering and erosion. Write note on physical type of weathering.	07 07	
Q.2	(a) (b)	 (i) Write short notes on (*) structures in minerals (*) luster property in mineral (ii) Write briefly transportation of rock fragments by wind. Explain erosion process and the erosional structures due to water. OR 	04 03 07	
	(b)	Write note on chemical weathering of rocks. Quote suitable examples.	07	
Q.3	(a) (b)	Write notes on (i) Texture in sedimentary rock (ii) structures in igneous rocks. Explain rock cycle. How igneous rocks are formed in nature? OR	07 07	
Q.3	(a) (b)	Define texture. Write verities of textures developed in igneous rocks. Write short notes on (i) mechanical structures in sedimentary rocks (ii) texture in metamorphic rocks	07 07	
Q.4	(a) (b)	Differentiate anticline – syncline fold. Write note on causes of fold. Differentiate normal- reverse fault. Write importance of fault in civil engineering structures	07 07	
ΩA	(a)	OR Write note on unconformity and their importance.	07	
Q.4	(a) (b)	How joints differ from faults. Write note on occurrence of joints.	07	
Q.5	(a)	Describe geological investigations carried out for the tunnel structures during various stage of tunnel construction.	07	
	(b)		07	
		OR		
Q.5	(a)	Write note on (i) influence of geology for site selection of reservoir (ii) effect of dipping strata for site selection of dam	07	
	(b)	Write about application of geological maps and satellite imageries in the field of civil engineering.	07	
