Enrolment No	
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GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - Ist Semester-Examination - May/June- 2012

Subject code: X10602

Subject Name: ENGINEERING GEOLOGY

		Subject Ivallie, ENGLINEERING GEOLOGI		
Date:02/06/2012 Time: 10:30 am – 01:0 Total Marks: 70		om		
Instructions:				
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
3. Figures to the right indicate full marks.				
Q.1	(a)	Describe any three important physical properties of minerals.	07	
Q.1	(a) (b)	Describe the disintegration of rocks, giving suitable examples.	07 07	
	(0)	Describe the disintegration of focks, giving suitable examples.	07	
Q.2	(a)	Write notes on the following topics:	07	
Q.2	(u)	(i) Parts of a typical fold	07	
		(ii) Mechanism of faulting		
	(b)	How are landslides caused?	07	
	(0)	OR	07	
	(b)	Write a note on uses of remote sensing techniques in civil engineering.	07	
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Q.3		Write notes on the following topics:		
X	(a)	Textures in Igneous rocks	07	
	(b)	Factors and kinds of metamorphism	07	
	()	OR		
Q.3		Write notes on the following topics:		
C C	(a)	Formation of sedimentary rocks	07	
	(b)	Rock cycle	07	
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Q.4		Write on the following topics:		
	(a)	Outcrops, inliers and outliers	07	
	(b)	Role of geology in civil engineering	07	
		OR		
Q.4	(a)	Describe the electrical resistivity method for subsurface geological	07	
		investigation.		
	(b)	Discuss the importance of geological maps and sections.	07	
Q.5	(a)	Describe the properties of a good building stone.	07	
	(b)	Classify the following rocks as per their origin:	07	
		(i) Granite (ii) Limestone (iii) Marble (iv) Shale (v) Basalt (vi) Quartzite		
		(vii) Sandstone		
0 -		OR		
Q.5	(a)	Narrate the merits and demerits of dam sites situated on faulted sequence of	07	
		rock formations.	05	
	(b)	Describe various sources of ground water.	07	
