Seat No.:		GUJARAT TECHNOLOGICAL UNIVERSITY		
Subject code: 182207		ode: 182207 Date: 05/	Date: 05/05/2015	
Subje	ect N	Name: Geological Exploration of Mineral Deposits		
Time	:10.	30AM-01.00PM Total M	Total Marks: 70	
Instru	ucti	ons:		
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.		
Q.1	(a)	What is the need of exploration? Differentiate surface and subsurface methods of exploration.	07	
	(b)	Explain the Electrical method of Geophysical Investigation.	07	
Q.2	(a)	What instruments are employed for seismic exploration method and how is it organized?	07	
	(b)	Explain different methods of geochemical exploration?	07	
		OR		
	(b)	Write an explanatory note on drilling muds and its properties.	07	
Q.3	(a)	What are the difficulties faced in boring?	07	
	(b)	Explain the regional and local guide to ore.	07	
		OR		
Q.3	(a)	What is gravity survey? What are the applications of gravity method to mineral exploration?	07	
	(b)	How interpretation of electrical and seismic data is carried out?	07	
Q.4	(a)	Explain the significance of map of different scales for exploration.	07	
	(b)	How aerial photography useful in geological exploration? OR	07	
Q.4	(a)	Classify the methods of exploration.	07	
	(b)	Explain different methods of rotary boring.	07	
Q.5		Write note on any two:-	14	
		1. Fishing tools.		
		2. Geophysical exploration application to oil reserves.		

Geophysical exploration applicat
 Hydro-geochemical exploration.
 Interpretation of borehole data.
