GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION - SUMMER 2014

Subject Code: 182207			2014	
Subject Name: Geological Exploration of Mineral Deposits				
Time: 10.30 am - 01.00 pm Total Mark			s: 70	
Insti	ructio			
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q-1.	(a)	Explain basic principle and condition of exploration.	07	
	(b)	What is geological mapping? Write a note on surface vs underground Mapping.	07	
Q-2.	(a)	What is prospecting? List out different prospecting exploration methods.	07	
		Explain geological prospecting exploration.		
	(b)	Explain electrical log and radioactive log.	07	
		OR		
	(b)	Write a note on infra-red photographs.	07	
Q-3.	(a)	Define resistivity surveying. Explain Magnetic methods of geophysical exploration & precautions during magnetic surveys.	07	
	(b)	Explain litho-geochemical & bio- geochemical	07	
		OR		
Q-3.	(a)	Explain different instruments and methods used for gravity measurement for mineral deposits with reference to geophysical exploration.	07	
	(b)	Write a short note on Interpretation of seismic reflection data.	07	
Q-4.	(a)	Define coring. Add a note on wire line coring.	07	
	(b)	Write a note on rope drill.	07	
		OR		
Q-4.	(a)	Write a note on fishing tools. Give uses of it.	07	
	(b)	Define boring. Write a note on core-barrels.	07	
Q-5.	(a)	Write a short notes on: (1) Ringed targets (2) Intersting loci.	07	
	(b)	Write a note on physiographic ore guides in brief.	07	
		OR		
Q-5.	(a)	Write a note on bottoming and zoning of mineral deposits.	07	
	(b)	Write a note fracture patterns as guides in brief.	07	
