Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VIII • EXAMINATION – SUMMER 2013** 

Su	bject	Code: 182207 Date: 09-05-2013	
Su	bject	Name: Geological Exploration of Mineral Deposits	
Ti	me: 1	0.30 am - 01.00 pm Total Marks: 70	
Ins	tructio		
	1. 2. 3.	Make suitable assumptions wherever necessary.	
Q.1	(a)	What is Geophysical Exploration? What are its principles? Explain in brief magnetic method.	07
	(b)	What is the basic aim of mineral exploration? Differentiate the surface and subsurface exploration.	07
Q.2	(a) (b)	How Remote sensing is used in geological exploration of mineral deposits? Explain the principles on which various geological exploratory maps are prepared.	07 07
		OR	
	<b>(b)</b>	What are the characteristics and principles of stereoscopic images.	07
Q.3	(a) (b)	What are the applications of gravity methods in mineral exploration? What is electrical method of geophysical exploration? Explain the resistivity method.	07 07
		OR	
Q.3	(a)	Explain the seismic method of exploration, its data interpretation, and its application.	07
	<b>(b)</b>	Explain in brief various method of geochemical exploration.	07
Q.4	(a) (b)	What is the use of boring? Write a note on principles of boring. What are the various method of boring?	07 07
<b>.</b> .		OR	^=
Q.4	(a) (b)	Explain the Lithological and stratigraphic guides to ores. What are the applications of Ariel photograph in identification of geologic structures?	07 07
Q.5	(a)	<ul> <li>Write note on (any 2):-</li> <li>a. Vertical and Oblique aerial photographs.</li> <li>b. Scales of mapping.</li> <li>c. Bottoming and zoning of mineral deposits.</li> <li>d. Difficulties in boring.</li> </ul>	14

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