

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019****Subject Code: 2182207****Date: 02/12/2019****Subject Name: Geological Exploration Mineral Deposits****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Write down the purpose of Exploration.	03
	(b) Write a short note on Underground Mapping.	04
	(c) Write the advantages and disadvantages of Remote sensing.	07
Q.2	(a) Write a note on Surface Exploration.	03
	(b) Describe the airborne survey.	04
	(c) What is coring? Add a note on wire line coring.	07
	OR	
Q.3	(c) What precautions are to be taken in carrying geo-chemical exploration?	07
	(a) Define sample and sampling.	03
	(b) Write merits & demerits of remote sensing.	04
	(c) Explain gravity methods of exploration in brief.	07
	OR	
Q.3	(a) Write a short note on GPS.	03
	(b) Write note on Manual Drilling.	04
	(c) Explain the merit & demerit of Aerial Photography.	07
Q.4	(a) Write the merits and demerits of GIS.	03
	(b) What do you mean by core recovery?	04
	(c) Differentiate between surface and sub-surface exploration.	07
	OR	
Q.4	(a) Write a note on Underground drilling.	03
	(b) Write the application of GIS.	04
	(c) Define drilling? Explain various methods of diamond drilling.	07
Q.5	(a) Write a short note on GIS.	03
	(b) Write uses of Aerial Photography.	04
	(c) What is seismic method? List out the instruments used in it and its application In oil exploration.	07
	OR	
Q.5	(a) What is bore hole survey?	03
	(b) Write note on Reconnaissance.	04
	(c) Explain the differential between percussive and rotary boring.	07
