

## www.FirstRanker.com

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VIII(NEW) EXAMINATION - SUMMER 2019** Subject Code:2182207 Date:20/05/2019

~	~				
Cubicat	Nomo 'o		<b>Exploration</b>	Minorol	Domogita
Sumeci	- Name: Cre	HOYICAL	rxbioralion	villerai	Debosiis
	_ ,				

Time:10:30 AM TO 01:00 PM **Total Marks: 70** 

## **Instructions:**

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- Figures to the right indicate full marks

	J. 1	igures to the right mateure run marks.	MARKS			
Q.1	(a)	Define Exploration. Describe objectives and principles of exploration.	03			
	<b>(b)</b>	•	04			
	(c)	Differentiate between surface and sub-surface exploration.	07			
Q.2						
	<b>(b)</b>					
	<b>(c)</b>	Define Boring. Write different principles and uses of boring.  OR	07			
	(c)	Differentiate between rotary and percussive boring.	07			
Q.3	(a)	Discuss the general principles of geophysical exploration.	03			
	<b>(b)</b>	Explain bore hole survey and bore hole deflection.	04			
	<b>(c)</b>	Explain surface and underground mapping.	07			
Q.3	(a)	OR Discuss the general principles of geochemical exploration.	03			
Ų.S	(a) (b)		03			
	(c)	List out various techniques of Reconnaissance. Explain any one in brief.	07			
Q.4	(a)	Discuss the site selection for boreholes.	03			
<b>V.</b> -	(b)		04			
	(c)	Explain electrical method of geophysical exploration.  OR	07			
<b>Q.4</b>	(a)	Discuss the difficulties occurs during in boring.	03			
	<b>(b)</b>		04			
	(c)	Explain magnetic method of geophysical exploration.	07			
Q.5	(a)	Discuss the principles of geological exploratory mapping.	03			
	<b>(b)</b>	Describe the precautions are to be taken in carrying geo-chemical exploration.	04			
	<b>(c)</b>	Explain gravity method of geophysical exploration in brief.	07			
~ <b>-</b>		OR	0.4			
Q.5	(a)	Explain scale of photographs.	03			
	<b>(b)</b>	<u>.</u>	04			
	<b>(c)</b>	Explain hydro-geochemistry exploration.	07			

\*\*\*\*\*