

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– III (NEW) EXAMINATION – SUMMER 2022****Subject Code:3132203****Date:18-07-2022****Subject Name:Geology****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.
4. Simple and non-programmable scientific calculators are allowed.

		<b>MARKS</b>
<b>Q.1</b>	(a) What is Earth Science?	<b>03</b>
	(b) What application of geology in mining engineering?	<b>04</b>
	(c) Explain internal structure of earth with diagram.	<b>07</b>
<b>Q.2</b>	(a) What is plate tectonics?	<b>03</b>
	(b) Explain yardangs and mushroom rock.	<b>04</b>
	(c) Describe Sand Dunes.	<b>07</b>
	<b>OR</b>	
	(c) What is Delta? Explain types of delta and its formation.	<b>07</b>
<b>Q.3</b>	(a) What are different agents of weathering?	<b>03</b>
	(b) How erosion by ground water is done?	<b>04</b>
	(c) Describe plate movement and its effect.	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) What is Mineral?	<b>03</b>
	(b) Explain structural geology?	<b>04</b>
	(c) Explain color and streak as mineral properties.	<b>07</b>
<b>Q.4</b>	(a) Explain feldspar family.	<b>03</b>
	(b) Explain minerals physical properties	<b>04</b>
	(c) Explain types of fold.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) State 3 laws of stratigraphy?	<b>03</b>
	(b) What is an out crop? Discuss factors which help in constructing the geological section.	<b>04</b>
	(c) Differentiate types of Fault.	<b>07</b>
<b>Q.5</b>	(a) What is remote sensing?	<b>03</b>
	(b) Explain types of Unconformity.	<b>04</b>
	(c) Explain Vindhyan super group.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Explain aerial photography.	<b>03</b>
	(b) Write a note on geological time scale of earth.	<b>04</b>
	(c) Explain meandering and Ox-bow lake.	<b>07</b>

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