## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE- SEMESTER-III (NEW) EXAMINATION – WINTER 2024

Subject Code:3132203 Date:10-12-2024

**Subject Name: Geology** 

Time:10:30 AM TO 01:00 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.

			MARKS
Q.1	(a)	What is erosion?	03
	(b)	Explain transportation process of water erosion.	04
	(c)	Classify the types of fault on the basis of axial plane.	07
Q.2	(a)	What is Earth Science?	03
	<b>(b)</b>	Describe various branches of Geology.	04
	<b>(c)</b>	Explain internal structure of earth with diagram.	07
		OR	
	<b>(c)</b>	What is river meandering? Explain ox-bow lake formation.	07
Q.3	(a)	What are different agents of weathering?	03
	<b>(b)</b>	Explain Mushroom rock.	04
	<b>(c)</b>	Describe Continental drift.	07
		OR	
Q.3	(a)	Define Mineral.	03
	<b>(b)</b>	Explain fold and its part with neat diagram?	04
	<b>(c)</b>	Explain color and streak as mineral properties.	07
Q.4	(a)	Write parts of Internal structure of Earth.	03
	<b>(b)</b>	Explain physical properties of minerals.	04
	<b>(c)</b>	Describe theory of plate tectonics and its effects.	07
		OR	
Q.4	(a)	Application aerial photos in mining?	03
	<b>(b)</b>	Explain types of fold.	04
	<b>(c)</b>	Differentiate types of Fault.	07
Q.5	(a)	What is remote sensing?	03
	<b>(b)</b>	Explain types of Unconfirmity.	04
	(c)	Explain physical properties of Quartz, Plagioclase, Hematite.	07
	` /	OR	
Q.5	(a)	Explain dip and strike.	03
	<b>(b)</b>	Describe Aravalli super group.	04
	(c)	Describe methods of sub-surface exploration.	07

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