

# GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code:3132203

Date:06-07-2024

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) Define Mineral.	03
	(b) What are the elements of remote sensing?	04
	(c) Explain different branches of geology?	07
Q.2	(a) Define the layers of Earth.	03
	(b) What important branches of geology needed in Mining Engineering?	04
	(c) Describe the internal structure of earth with neat sketch.	07
	OR	
	(c) Explain the theory of Plate Techtonics.	07
Q.3	(a) What is Weathering?	03
	(b) Differentiate Weathering and Erosion.	04
	(c) Write a note on river valley.	07
	OR	
Q.3	(a) Define hardness and streak of mineral.	03
	(b) Describe Form and Structure of a mineral as a property.	04
	(c) Write a note on Sand dunes.	07
Q.4	(a) Define Continental Drift.	03
	(b) Describe the types of plates.	04
	(c) Explain bedding plain, dip and strike.	07
	OR	
Q.4	(a) Define fault.	03
	(b) Classify the fault on basis of axial plane.	04
	(c) Explain fold and its type.	07
Q.5	(a) Define Unconformity.	03
	(b) What is aerial photography?	04
	(c) Explain Subsurface exploration.	07
	OR	
Q.5	(a) Define river delta.	03
	(b) Explain in detail process of chemical weathering.	04
	(c) Write a note on Sand dunes.	07

\*\*\*\*\*