

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (NEW) EXAMINATION – WINTER 2023

Subject Code:3132203

Date:25-01-2024

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 geology?	03
(b) What study of geology is important for mining engineers?	04
(c) What are different branches of geology and explain them.	07
Q.2 (a) Name three layers of earth.	03
(b) Explain internal structure of earth with neat diagram.	04
(c) Explain theory of plate tectonics.	07
OR	
(c) Explain erosion, weathering, denudation.	07
Q.3 (a) Define mineral.	03
(b) Enlist physical properties of mineral. Explain any two of them.	04
(c) Write a note on continental drift.	07
OR	
Q.3 (a) List erosional features of wind	03
(b) Explain sand dunes.	04
(c) Describe the depositional features of water.	07
Q.4 (a) Define ox-bow lake.	03
(b) Explain dip and strike.	04
(c) What is fold? Give classification of fold.	07
OR	
Q.4 (a) Define fault.	03
(b) Classify fault on the basis of axial plane.	04
(c) What is the importance of geological maps in mining?	07
Q.5 (a) What is remote sensing?	03
(b) What are the elements of remote sensing?	04
(c) Write a note on geophysical exploration.	07
OR	
Q.5 (a) Define stratigraphy.	03
(b) What is geological timescale?	04
(c) Describe aerial photography.	07
