

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER- III(NEW) EXAMINATION – WINTER 2022****Subject Code:3132203****Date:27-02-2023****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.

MARKS

Q.1	(a) What is Geology?	03
	(b) What are the uses of geology in mining engineering?	04
	(c) Explain the sections of earth with diagram.	07
Q.2	(a) What are the agents of weathering?	03
	(b) What are the erosional features of wind erosion?	04
	(c) What are the depositional features of wind?	07
	OR	
	(c) What are the depositional features of water?	07
Q.3	(a) What is plate movement?	03
	(b) How erosion by ground water is done?	04
	(c) What are the types of plate movement and how it works?	07
	OR	
Q.3	(a) Give definition of mineral.	03
	(b) What is structural geology?	04
	(c) Explain Form and structure, hardness as mineral properties.	07
Q.4	(a) Explain quartz family.	03
	(b) Explain minerals physical properties	04
	(c) Describe types of fold.	07
	OR	
Q.4	(a) What are laws of stratigraphy?	03
	(b) How fold are recognized in field?	04
	(c) Differentiate types of Fault.	07
Q.5	(a) What is strike and dip?	03
	(b) Explain types of Unconformity.	04
	(c) Explain Vindhyan super group.	07
	OR	
Q.5	(a) Explain aerial photography.	03
	(b) Define terms- pitting, trenching, shaft sinking	04
	(c) Note on use of aerial photos for mineral reconnaissance.	07
