Seat No.: Enrolment No.	
-------------------------	--

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION - WINTER 2023

•		Code:3142208	Date: 06-02-2024
U	e:10	Name:Mining Geology :30 AM TO 01:00 PM	Total Marks:70
mstr	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allo	owed.
Q.1	(a)	Define structural geology.	03
	(b)	How are rocks formed?	04
	(c)	Explain the classification of Igneous rocks.	07
Q.2	(a)	Define agradational geomorphic process.	03
	(b)	What are the geological causes of earthquake?	04
	(c)	Explain the P, S and L waves of earthquake. OR	07
	(c)	What is volcano? Explain the type of volcanoes.	07
Q.3	(a)	<u>e</u>	03
	(b)		04
	(c)	Explain the textures and structures of Igneous rocks. OR	07
Q.3	(a)		03
	(b)	•	04
	(c)	•	07
Q.4	(a)	Define metamorphic rocks.	03
	(b)	What are the agents of metamorphism?	04
	(c)	What are the texture and structures of metamorphic rock OR	os? 07
Q.4	(a)		03
	(b)		04
	(c)	• •	07
Q.5	(a)	What is a tunnel?	03
	(b)	Classify the types of tunnels.	04
	(c)	What are the geological hazards in construction of a tuni OR	nel? 07
Q.5	(a)		03
	(b)		04
	(c)	-	07
