

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER– IV(NEW) EXAMINATION – SUMMER 2023

Subject Code:3142208

Date:17-07-2023

Subject Name:Mining 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) Why study of rocks is important in Mining Engineering?	03
(b) Write a note on Seismic Zones of India.	04
(c) Give classification of Sedimentary Rocks.	07
Q.2 (a) How are igneous rocks formed?	03
(b) Write a note on lineation.	04
(c) Describe the structures of Igneous rocks	07
OR	
(c) What is Dam? Discuss the geological factors to be taken care in the design of a Dam.	07
Q.3 (a) List out different types of Sedimentary structures.	03
(b) Write a note on Seismic Zones of India.	04
(c) Describe how sedimentary rocks formed?	07
OR	
Q.3 (a) What is texture and structure?	03
(b) Give the difference between a fault and a fold.	04
(c) Describe various textures observed in sedimentary rocks.	07
Q.4 (a) Describe how metamorphic rocks are formed.	03
(b) Describe the “Jurassics of Kutch”.	04
(c) Discuss how the geological factors influence the selection of tunnel alignments.	07
OR	
Q.4 (a) Explain the causes of earthquake.	03
(b) Describe different agents and kinds of metamorphism.	04
(c) Classify and describe Granite, Marble, Sandstone.	07
Q.5 (a) What are the causes of landslide?	03
(b) Describe structures of metamorphic rocks.	04
(c) What are the preventive measures for landslide?	07
OR	
Q.5 (a) What is Sill and Dyke?	03
(b) Describe economics of deccan traps.	04
(c) Describe Thar Desert from geology point of view.	07
