

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV EXAMINATION – SUMMER 2025

Subject Code:3142208

Date:17-05-2025

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) What is study of rock?	03
(b) What are types of rock how their formation takes place?	04
(c) Explain Igneous textures.	07
Q.2 (a) What is metamorphic rock?	03
(b) Explain formation of sedimentary rocks.	04
(c) What are the textures of sedimentary rocks?	07
OR	
(c) Describe types of volcanoes.	07
Q.3 (a) What is sedimentary rock?	03
(b) How metamorphic rocks are formed?	04
(c) What are the textures of metamorphic rocks?	07
OR	
Q.3 (a) What is tremor?	03
(b) How earthquake scaling is done?	04
(c) Write note on seismic zones of India.	07
Q.4 (a) Define Volcano.	03
(b) What are different types of Volcanoes?	04
(c) Explain different structures of Igneous rocks.	07
OR	
Q.4 (a) Define schistosity.	03
(b) Explain dyke and sill as structure.	04
(c) Explain the rocks – Conglomerate, Gneiss, Basalt.	07
Q.5 (a) What is lineation?	03
(b) Write a note on Deccan Trap.	04
(c) How geology affects tunnel work?	07
OR	
Q.5 (a) Define tunnel	03
(b) What are problems in tunnel excavation?	04
(c) How landslide can be prevented?	07
