

Enrollment No./Seat No.:

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Bachelor of Engineering - SEMESTER - III EXAMINATION - SUMMER 2025**

**Subject Code: 3132203**

**Date: 06-06-2025**

**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.**

	<b>Marks</b>
<b>Q.1 (a)</b> Define Geology.	<b>03</b>
<b>(b)</b> State Internal structure of earth with diagram.	<b>04</b>
<b>(c)</b> What is mineral? What are properties of mineral and explain any two with example.	<b>07</b>
<b>Q.2 (a)</b> What are different branches of geology?	<b>03</b>
<b>(b)</b> Explain yardangs and mushroom rock.	<b>04</b>
<b>(c)</b> Classify the types of fold on the basis of axial plane.	<b>07</b>
<b>OR</b>	
<b>(c)</b> Describe Sand Dunes.	<b>07</b>
<b>Q.3 (a)</b> What are type of joints?	<b>03</b>
<b>(b)</b> Explain transportation process of wind erosion.	<b>04</b>
<b>(c)</b> Describe plate movement and its effect.	<b>07</b>
<b>OR</b>	
<b>(a)</b> Explain plate tectonics	<b>03</b>
<b>(b)</b> Explain transportation process of water erosion	<b>04</b>
<b>(c)</b> Describe plate movement	<b>07</b>
<b>Q.4 (a)</b> What is chemical weathering?	<b>03</b>
<b>(b)</b> Describe the arvalis of Gujarat and Rajasthan	<b>04</b>
<b>(c)</b> Differentiate types of Faults	<b>07</b>
<b>OR</b>	
<b>(a)</b> Define physical weathering.	<b>03</b>
<b>(b)</b> Explain types of glaciers	<b>04</b>
<b>(c)</b> Describe physical process of weathering.	<b>07</b>
<b>Q.5 (a)</b> Define remote sensing.	<b>03</b>

- (b) What are the advantages of remote sensing? 04
- (c) Explain subsurface exploration process. 07
- OR**
- (a) Define stratigraphy. 03
- (b) Explain types of folds. 04
- (c) Classify fault on the basis of fault axis. 07
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