Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## BE - SEMESTER-III EXAMINATION - WINTER 2015

	U	Code:132203 Date:29/12/201	15
Tir	ne: 2 tructio	t Name: Geology - I 2:30pm to 5:00pm Total Marks: ons: Attempt all questions.	70
	2.	Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain internal structure of the earth through seismic evidence. Explain stages of river development.	07 07
Q.2	(a) (b)	What is plate tectonics? Explain different types of plate boundaries. What are the different branches of geology? What are its applications to Mining Engineering?	07 07
	<b>(L</b> )	OR	07
	<b>(b)</b>	What is Dip and Strike? Explain fault with its terminology and figure.	07
Q.3	(a)	Differentiate Erosion, Weathering and Denudation. Explain Physical and chemical weathering.	07
	<b>(b)</b>	Explain the physical properties of ore minerals: Haematite, Magnetite, Galena, Sphalerite, Bauxite, Wolframite, Pyrite.  OR	07
Q.3	(a) (b)	Explain the erosion and depositional features of wind. What is Unconformity? Explain the types of Unconformity.	07 07
Q.4	(a)	What are the physical properties of mineral? Explain Form & Structure and Hardness.	07
	<b>(b)</b>	Explain the mineral family – Pyroxene and Feldspar.  OR	07
Q.4	(a)	Describe the types of sand dunes with diagram.	07
	<b>(b)</b>	What are the principles of stratigraphy? Explain Archean of India.	07
Q.5	(a)	Explain Nebular hypothesis for the origin of the earth.	07
	<b>(b)</b>	Write a note on pre forming minerals.  OR	07
Q.5	(a) (b)	What is sub-surface exploration? Write about its different methods. Write the note on glacial deposits.	07 07

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