Seat No.:	T 1 / NT
SAAT NA ·	Hnrolmant No
DEAL INU	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

**BE - SEMESTER-III (New) EXAMINATION – WINTER 2015** 

Subject Code:2132203		Date:29/12/2015	
•	1		Total Marks: 70
2. N	Make	pt all questions. suitable assumptions wherever necessary. es to the right indicate full marks.	
			MARKS
Q.1		<b>Short Questions</b>	14
	1	Define Law of Original Horizontality in stratigraphy.	
	2	List terrestrial planets in increasing distance from Sun.	
	3	In the interior of the earth a major discontinuity four between the Crust and the Mantle is termed as	
	4	Define Law of Superimposition in stratigraphy.	
	5	List physical properties of bauxite ore.	
	6	Define erosion.	
	7	Infer the structure: if during a traverse repetition of be is observed after a certain distance and repeated beds d in opposite directions with higher amount of dip.	
	8	Deep sea trenches are found to be associated with plate boundaries.	_
	9	In which stage of river development ox-bow lakes a formed?	re
	10	If slop is gentler than amount of dip, bed are four in the dip direction. (younger or older)	nd
	11	Write equation to calculate true dip from a geologic map. True Dip=	eal
	12	The famous Kolar gold mines of India are situated rocks of System of Archean Group.	in
	13	The Red fort at Delhi is made of rocks of System	n.
	14	Name the mineral that exhibits three set cleavage.	
Q.2	(a)	Describe physical properties of quartz, fluorite, as muscovite.	nd <b>03</b>
	<b>(b)</b>	Describe Core of the Earth with suitable diagram.	04
	(c)	Explain concept of Continental Drift with supporti evidences.	ve <b>07</b>
	( )	OR	1 0=
	(c)	List out physical properties useful to identify a minera in hand specimen and describe fracture, streak and luste	
Q.3	(a)	Write short note on origin of stalagmite and stalactite.	03
	<b>(b)</b>	Explain, with suitable examples, origin of minerals weathering product.	
	(c)	Describe process of mechanical weathering in colhumid and hot-arid climatic conditions.	d- <b>07</b>
		OR	

Q.3 (a) What is remote sensing? Explain concept of spatial

03

		resolution in remotely sensed data.		
	<b>(b)</b>	•	04	
		meandering river.		
	<b>(c)</b>	Describe with neat diagram different depositional	07	
		features produced by glacial activity.		
<b>Q.4</b>	(a)	Explain limitations of drilling methods in different	03	
		geological settings.		
	<b>(b)</b>	Explain origin of Island-Arcs in context with convergent	04	
		plate boundary.		
	<b>(c)</b>	Explain Gas-Dust Cloud hypothesis for the origin of	07	
		Earth.		
		OR		
<b>Q.4</b>	(a)	Point out differences between litho-stratigraphy and bio-	03	
		stratigraphy.		
	<b>(b)</b>	Write down standard stratigraphic scale along with its	04	
		Indian equivalents in tabular format.		
	<b>(c)</b>	Describe stratigraphy of Cuddapah Basin of Andhra in	07	
		detail with its economic importance.		
Q.5	(a)	Define dip and explain difference between true dip and	03	
		apparent dip.		
	<b>(b)</b>	Define geological fault and describe different	04	
		components of a typical fault with neat diagram.		
	<b>(c)</b>	Give detailed classifications of geological faults with neat	07	
		diagrams.		
		OR		
Q.5	(a)	What is unconformity? Describe different types of	03	
		unconformity.		
	<b>(b)</b>	Define geological fold and describe different components	04	
		of a typical fold with neat diagram.		
	<b>(c)</b>	Give detailed classifications of geological folds with neat	07	
		diagram.		

\*\*\*\*\*