## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI- EXAMINATION – SUMMER 2016			
St	ıbject	t Code:162201	Date:19/05/2016
Subject Name:Economic Geology I Time: 10:30 AM to 01:00 PM Total Marks:			
			<b>Total Marks: 70</b>
Ins	structio	ons:	
	2	<ul><li>Attempt all questions.</li><li>Make suitable assumptions wherever necessary.</li></ul>	
	3.	. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain the classification of mineral deposit.  How are minerals important in national economy?	07 07
Q.2	(a) (b)	Classify the economic mineral forming process.  Describe the ore and gauge minerals.	07 07
		OR	
	<b>(b)</b>	Explain the minerals associated with acidic igneous rocks.	07
Q.3	(a)	Write a note on late magmatic concentration.	07
	<b>(b)</b>	How pegmatites are important for economic deposit formation?  OR	07
Q.3	(a) (b)	Explain the role of intrusive rocks in deposit formation.  Describe metamorphism as a rock forming process.	07 07
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Q.4	(a) (b)	How hydrothermal process of mineral deposit takes place? Explain Xenothermal deposits.	07 07
	( <b>b</b> )	OR	07
<b>Q.4</b>	(a)	Give the genesis of Indian copper and zinc deposits.	07
	<b>(b)</b>	What are the economic uses of industrial minerals?	07
Q.5		Write note on any two:	14
		1. Fertilizer minerals	
		<ol> <li>Mineral Deposits for cement in Gujarat.</li> <li>Gemstone in India.</li> </ol>	
		4. Metasomatic replacement.	

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