## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER- 1<sup>st</sup> / 2<sup>nd</sup> • EXAMINATION – SUMMER • 2014

Subject	t Cod	e: 11(	D001 Date: 21-06-2014	Date: 21-06-2014	
-	)2:30		nemistry 05:00 pm Total Marks: 70		
1. 2.	. Atte . Mal	ke suit	ny five questions. able assumptions wherever necessary. the right indicate full marks.		
(	Q.1	(a) (b) (c)	Explain Zeolite process. Give preparation and use of Nylon-6 6 Explain in brief Thermal Insulator	7 4 3	
	Q.2	(a)	What do you mean by air pollution? Write note on Green House Effect.	7	
		(b)	What is hardness? Differentiate between temporary and permanent hardness. How can we remove temporary and permanent hardness?	4	
		(c)	What do you mean by Chromatography? Give it principle. Give outline of classification of chromatography.	3	
(	Q.3	(a)	Discuss Type of Polymerization Reaction with suitable examples.	7	
		(b) (c)	Explain briefly Non Ferrous Alloy. Write difference between scale and sludge.	4 3	
(	Q.4	(a)	Explain breity Galvanic Corrosion.	7	
		(b) (c)	Discussion pe of fuel with suitable example. What is Refractory? Give classification of refractory with suitable examples.	4 3	
(	Q.5	(a) (b)	Discuss concept, advantages and uses of electro plating.	7	
		(b)	Give application of Biotechnology in following fields. Agriculture, Medicine, Food quality	4	
		(c)	Write note on fibres made from natural sources with suitable examples.	3	
(	<b>).</b> 6	(a)	Discuss physical properties of metal. Write note in detail on heat treatment of steel.	7	
		(b)	What are the characteristics of a good fuel? Give advantages of CNG over LPG.	4	
		(c)	Give classification of Lubricants with suitable examples.	3	
(	Q.7	(a)	Write note on Portland cement. Describe Wet process of manufacture of Portland cement with chemical reaction involved in it.	7	
		(b) (c)	Explain in brief Waterline corrosion. What are renewable and nonrenewable energy sources? Explain with suitable examples.	4 3	

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