GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- 1st / 2nd • EXAMINATION - SUMMER • 2014

Subject Code: 110001		001 Date: 21-06-2014	Date: 21-06-2014	
•	-	emistry 05:00 pm Total Marks: 70		
1. 2.	Attempt an Make suita	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.		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) (b) (c)	Explain briefly Galvanic Corrosion. Discuss type of fuel with suitable example. What is Refractory? Give classification of refractory with suitable examples.	7 4 3	
Q.	5 (a) (b)	Discuss concept, advantages and uses of electro plating. Give application of Biotechnology in following fields. Agriculture, Medicine, Food quality	7 4	
	(c)	Write note on fibres made from natural sources with suitable examples.	3	
Q.	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	4 3	
	. /	suitable examples.		
