Enrol	lment	No.	
EIIIOI	ment	110	

GUJARAT TECHNOLOGICAL UNIVERSITY B.E Sem-I/II Examination June-July 2011						
Subject code: 110001Subject Name: ChenDate: 6/7/2011Total Marks: 70Time: 10:30 am to 1						
Inst	Instructions:					
		Attempt all questions.				
		Make suitable assumptions wherever necessary.				
	<b>3.</b> ]	Figures to the right indicate full marks.				
0.1	()		07			
Q.1	(a) 1.	Fill in the Blanks can be used as a coagulant during the purification of	07			
	1.	potable water by municipalities.				
	2.	The purest form of commercial iron is iron.				
	3.	Chemically the rusting of an iron can be noted as				
	4.	Graphite and Molybdenum are used as a				
	5.	was the inventor of Portland cement.				
	6.	Polymerization of unsaturated dienes or trienes can be done better with				
		the help of catalyst.				
	7.	gas was responsible for the deadly destruction of lives on				
		3rd December 1984 at Bhopal.				
	(b)	Write a note on.	07			
	1.	1				
0.2		Compressed Natural Gas (CNG) Differentiate Renewable and Non-renewable source of energy. Discuss	07			
Q.2	(a)	in detail the importance of solar energy.	07			
	(b)	Write a note on.				
	1.		04			
	2.	Acid- base Conductometric titrations.	03			
		OR OR				
	<b>(b)</b>	Write a short note on.				
	1.	Effects of over use of natural resources.	04			
	2.	pH & its measurement.	03			
0.0						
Q.3	<b>(a)</b>	What is Brackish water? Discuss electrodialysis and reverse osmosis	07			
	(b)	method to desalinate the brackish water. Explain:				
	(b) 1.	Biofuel, the formation of Biogas.	04			
	1. 2.	The importance of organic coatings with examples.	04			
	2.	OR	00			
Q.3	(a)	Write the essential requirement of water consumed for drinking purpose	07			
		along with a municipal process to avail the same.				
	<b>(b)</b>	Explain:				
	1.	Manufacturing of Acetic acid by fermentation.	04			
	2.	Mechanism of Lubrications.	03			
04		Discuss different analysis corried out to assess the quality of acal. Also	07			
Q.4	<b>(a)</b>	Discuss different analysis carried out to assess the quality of coal. Also calculate the gross and net calorific values of coal possessing the	U /			
		following composition: Carbon: 85%, Hydrogen: 8%, Sulphur: 1%,				

following composition: Carbon: 85%, Hydrogen: 8%, Sulphur: 1%, Nitrogen: 2%, Ash: 4%, Latent heat of steam: 587 cal/g.

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	(b) 1. 2.	Important properties of refractories.	04 03
Q.4	(a) (b) 1.	OR Give the mechanism of dry and wet corrosion. Discuss: Acid rain and Green house effect.	07 04
	1. 2.		04 03
Q.5	(a)	plastics. Explain Compression and Injection moulding.	07
	(b) 1. 2.	Physical properties of Metals. Vulcanization of rubber.	04 03
Q.5	(a)	<b>OR</b> Discuss dry and wet process for manufacturing of Portland cement.	07
	(b) 1. 2.	Explain: Pilling Bedworth rule and composition of petrol and kerosene. Concrete and RCC.	04 03