Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY BE- Ist /IInd SEMESTER-EXAMINATION – MAY/JUNE - 2012 Subject code: 110001 Date: 1

Subject code: 110001		le: 110001 Date:	Date: 11/06/2012	
Subj	ect Nai	me: Chemistry		
Time: 10:30 am – 01:00 pm		0 am – 01:00 pm Total	Total Marks: 70	
Instr	uction	ns:		
1.	Attem	pt any five questions.		
2.	Make	suitable assumptions wherever necessary.		
3.	Figure	es to the right indicate full marks.		
4.	Each o	question carry equal marks		
Q.1		Answer the following.	14	
	(a)	Define corrosion. Write difference between Dry & wet corrosion.	` '	
	(b)	Discuss soda-lime process.	(3)	
	(c)	Explain reverse osmosis in detail.	(4)	
Q.2		Answer the following.	14	
	(a)	What are constituents of paint? Give examples & write their fuction	ons. (7)	
	(b)	Give process & advantages of electroless plating.	(3)	
	(c)	Write differences between temporary & permanent hardness.	(4)	
Q.3		Answer the following.	14	
	(a)	Write a note on special paints.	(3)	
	(b)	What is a refractory? Give different types of refractories.	(4)	
	(c)	Discuss galvanizing & Tinning.	(7)	
Q.4		Answer the following.	14	
	(a)	Define:flash point, fire point, pour point, cloud point.	(4)	
	(b)	What is ozone depletion?	(3)	
	(c)	What is air pollution? What are the factors responsible? Explain r of fuel in air pollution?	ole (7)	
0.5		•	1.4	
Q.5	(0)	Answer the following.	14	
	(a) (b)	Define polymer. What is degree of polymerization? Discuss factors affecting corrosion.	(3)	
	(c)	What are metallic coating? Expalin methos of cleaning base metal	(4) (7)	
	(C)	before electoroplating.	(7)	
Q. 6		Answer the following.	14	
	(a)	Explain: What is sand blasting?	(3)	
	(b)	Write a note on Portland cement.	(4)	
	(c)	Discuss manufacture of ethyl alcohol from molases by fermentati	on. (7)	
Q.7		Answer the following.	14	
	(a)	What is chromatography? What are the types? Explain paper	(7)	
		chromatography.		
	(b)	Draw instrumentation of UV-specroscopy.	(3)	
	(c)	Discuss melt spinning of fibres.	(4)	
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