GUJARAT TECHNOLOGICAL UNIVERSITY BE- I <sup>st</sup> /II <sup>nd</sup> SEMESTER-EXAMINATION – MAY/JUNE - 2012			
Subje	ect cod	e: 110001 Date: 11	/06/2012
Subje	ect Nai	me: Chemistry	
Time: 10:30 am – 01:00 pm Total M			larks: 70
Instr	uction	ns:	
1.	Attem	pt any five questions.	
		suitable assumptions wherever necessary.	
3.		es to the right indicate full marks.	
4.	Each o	uestion carry equal marks	
Q.1		Answer the following.	14
	(a)	Define corrosion. Write difference between Dry & wet corrosion.	(7)
	(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 fuctions	
	(b)	Give process & advantages of electroless plating.	(3)
	(c)	Write differences between temporary & permanent hardness.	(4)
01			14
Q.3	(a)	Answer the following.	14
	(a)	Write a note on special paints. What is a refractory? Give different, types of refractories.	(3) (4)
	(b) (c)	Discuss galvanizing & Tinning.	(4) (7)
	(C)	Discuss garvanizing & Thinnig.	(I)
Q.4		Answer the following.	14
ו•	(a)	Define:flash point, fire point, pour point, cloud point.	(4)
	(b)	What is come depletion?	(3)
	(c)	What is air pollution? What are the factors responsible? Explain role	
		of fiel in air pollution?	
Q.5		Answer the following.	14
Q.5	(a)	Define polymer. What is degree of polymerization?	(3)
	(b)	Discuss factors affecting corrosion.	(4)
	(c)	What are metallic coating?Expalin methos of cleaning base metal	(7)
		before electoroplating.	(,)
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 fermentation	(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)		(4)
		Discuss melt spinning of fibres.	

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