Seat No.:	Enrolment No.
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## GUJARAT TECHNOLOGICAL UNIVERSITY

	Diplo	oma Engineering - SEMESTER-I&II • EXAMINATION – WINTER 2013	
Su	bject	Code: 320012 Date: 21-12-2013	
Ti	•	Name: Chemical Engineering Material 0:30 am - 01:00 pm Total Marks: 70 ns:	
		Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	Define: Specific heat, Thermal conductivity, Stress, Strain, Fatigue, Creep. Write in details of the various types of corrosion.	
Q.2	(a) (b)	Explain common method used for control & preventation of corrosion. Give properties and uses of Alluminium, Nickle, Brass and Bronze.  OR	07 07
	(b)	Expalin in details Blast furnace with neat sketch.	07
Q.3	(a) (b)	Give the classification of Rubber. Write the Vulcanization of rubber. Write short not on Polymerization and types of Polymerization. OR	07 07
Q.3	(a) (b)	Discuss the classification of Insualtions in details.  Write classification of Varnishes and its use.	07 07
Q.4	(a) (b)	Write various ingredients of paint. Discuss Base , Pigment and filler. Write composition, properties and uses of Porcelain. OR	07 07
Q. 4	(a) (b)	Write the special types of paints and their application. Write the classification and properties and uses of Refractories.	07 07
Q.5	(a) (b)	Discuss the importance of Lubricants and classify its.  What is composite material and uses of its in industry.  OR	07 07
Q.5	(a) (b)	Write the type of various composite materials. Explain any one. Write short not on Industrial adhesives.	07 07

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