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

BE - SEMESTER- V• EXAMINATION - SUMMER 2014

Sul	hiect	Code:153606 Date:11/05/201	15
	•	Name:Polymeric & Rubber Materials - II	
Tir	ne: 2	2.30PM-5.00PM Total Marks:	70
		Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain different types of oil modification.  Give three example of raw material used for Epoxy resin synthesis with Structure and properties. Enumerate various application of Epoxy resin.	07 07
Q.2	(a) (b)	Write a short note on synthesis of Amino resin. Write a short note on modification of Amino resin.  OR	07 07
	<b>(b)</b>	Write a short note on curing of Epoxy resin.	07
Q.3	(a)	Give twelve example of raw material used for Saturated Polyester resin synthesis with Structure and properties.	07
	<b>(b)</b>	Write a short note on Curing Mechanism and Modification of Polyester resin.  OR	07
Q.3	(a) (b)	Explain Manufacturing of Polyester resin. Explain Manufacturing of Alkyd resin using Fatty acid. And give advantages and disadvantages over oil process.	07 07
Q.4	(a) (b)	Explain the synthesis; curing and application for acrylic resins.  Explain the synthesis; curing and application for Polyurethane resins.  OR	07 07
Q.4	(a) (b)	Write a short note on synthesis of Silicone Resin and its application. Write a short note on cross linking and de-vulcanization of Rubber.	07 07
Q.5	(a) (b)	Write a short note on synthesis of Novolac Resin. Write a short note on rosin modification and oil modification of Resol Resin.  OR	07 07
Q.5	(a)	Differentiate between i) Oil based Alkyd and Fatty acids based Alkyd resin ii) Saturated and Unsaturated Fatty acid.	07
	<b>(b)</b>	Write a short note on Alkyd resin.	07

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