Seat No.:	Enrolment No.
Deat 110	Emonient 10

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## BE - SEMESTER-III • EXAMINATION – WINTER 2013

	U	Code: 130102 Date: 28-11-2013	
Tir	ne: 0 cructio 1. 2.	Attempt all questions.	
Q.1	(a) (b)	anyone in detail.	07 07
Q.2	(a) (b)	* *	07 07
	<b>(b)</b>	Give classification of coal by rank wise with schematic diagram.	<b>07</b>
Q.3	<ul><li>(a)</li><li>(b)</li></ul>	What is vulcanization of rubber? Why natural rubber needs vulcanization? How is it carried out? Mention its advantages.  Discuss classification of polymers.  OR	07 07
Q.3	(a) (b)	Explain in details spinning process Give classification of fibers.	07 07
Q.4	(a) (b)	Explain in details manufacturing process of Refractories.  Explain in detail mechanism of Lubrication.  OR	07 07
Q.4	(a) (b)	Explain the principle of UV & IR spectroscopy with their applications.  Give comparison between chemical and electrochemical corrosion.	07 07
Q.5	(a) (b)	Explain in details any one organic coating with ingredients, properties and use. Explain in details chemical conversion coatings.  OR	07 07
Q.5	<ul><li>(a)</li><li>(b)</li></ul>	~ <del>~-</del>	07 07

\*\*\*\*\*