C AT	T I AN
Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

	U	t Code: 2130501 Date: 18-12-2014	
Tiı	me: 0 tructio 1. 2.	. Attempt all questions.	
<b>Q.1</b>	(a) (b)	Define cracking. Explain any one method of catalytic cracking. Write short note on synthetic petrol.	07 07
Q.2	(a) (b)	How is sucrose manufactured from sugar cane? Explain by giving flow sheet diagram.  Write a note on Ruff degradation.	07 07
	<b>(b)</b>	OR Write a note on Killiani fischer synthesis.	07
Q.3	(a) (b)	Discuss the theories of color and constitution.  What is dye? How are dyes classified on the basis of application?  OR	07 07
Q.3	(a) (b)	Explain the reaction mechanism of Wolf-kisher and canninzaro reaction.  Explain the preparation, properties and use of furan.	07 07
Q.4	(a) (b)	Explain the manufacturing process of Acetic acid.  Write a note on optical activity by using a suitable example.  OR	07 07
Q.4	(a) (b)	Explain unit process for nitration and sulphonation.  Explain unit process for amination and oxidation in detail.	07 07
Q.5	(a) (b)	Explain nucleophilic substitution reaction in detail with their mechanism.  Write a note on optical isomerism of lactic acid and tartaric acid.  OR	07 07
Q.5	(a) (b)	Explain your understanding for E,Z,notation.  Discuss bromination of benzene with its reaction mechanism.	07 07

\*\*\*\*\*