Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III(NEW) • EXAMINATION - SUMMER 2015

Subject Code: 2130501			Date:27/05/2015	
Ti	me:02 tructio	Attempt all questions. Make suitable assumptions wherever necessary.	70	
Q.1	(a)	What is fractional distillation? Explain distillation of crude oil with labeled diagram.		
	(b)	Explain fission reaction in detail.	07	
Q.2	(a)	Write short notes on: (i) Optical isomerism (ii) Enantiomers	07	
	(b)	Write short notes on: (i) Geometrical isomerism (ii) Optical activity in lactic acid	07	
		OR		
	(b)	Explain Killinai Fischer Synthesis in detail.	07	
Q.3	(a) (b)	Explain nitration and sulphonation processes with suitable examples. Explain amination and oxidation processes with suitable examples. OR		
Q.3	(a) (b)	Explain manufacturing process of the Acetic acid with applications in detail. Explain manufacturing process of the Oxalic acid with applications in detail.		
Q.4	(a)	What are heterocyclic compounds? Give preparation, property and uses of Pyrrole.	07	
	(b)	Explain Wolf Kishner reaction along with its mechanism and uses. OR	07	
Q.4	(a) (b)	Explain preparation, property and uses of Furan. Explain diazotization reaction in detail.	07 07	
Q.5	(a) (b)	What are carbohydrates? Classify different types of carbohydrates. Convert glucose to fructose.	07 07	
		OR		
Q.5	(a) (b)	What is colour? Explain theory of colours in detail. What is dye? Classify dyes on the basis of its application.	07 07	
