Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III(New) EXAMINATION - SUMMER 2016

Subject Code:2132604 Subject Name:Advanced Engineering Chemistry Time:10:30 AM to 01:00 PM Instructions:			Date:09/06/2016	
			Total Marks: 70	
		npt all questions.		
		e suitable assumptions wherever necessary.		
		res to the right indicate full marks.		
	J	<u> </u>	MARKS	
Q	1	Short Questions	14	
V	1	What do you understand by chiral carbon?	14	
	2	Give example of any one oxidizing agent.		
	3	Differentaite between homolysis and heterolysis.		
	4	What are components of petroleum?		
	5	Calculate pH of 0.01 N HCl.		
	6	Write chemical reaction for addition reaction		
	7	Amino acids are monomers of		
	8	Which among formic acid and acetic acid is stronger?		
	9	Write any one use of phenol.		
	10	•		
	11	± •		
	12			
		What are azo dyes?		
	14	<u> </u>		
Q	.2 (a)	- •	ion 03	
	(b)	± •	04	
	(c)	•	07	
	(c)		n's 07	
0	.3 (a)	Compare natural and synthetic polymers.	03	
	(b)		(a) 04	
	(c)	Explain optical isomerism in lactic acid or tartaric acid OR	. 07	
Q	.3 (a)		03	
	(b)	•	04	
	(c)	applications.	its 07	
Q	.4 (a)	<u>.</u>	03	
	(b)	· · · · · · · · · · · · · · · · · · ·	04	
	(c)	Define pH. Explain measurement of pH by pH meter. OR	07	
Q	.4 (a)	radical		
	(b)	1	04	
	(c)	Explain industrial manufacturing of starch.	07	

Q.5 (a) What is resonance? Explain taking suitable example

1

03

	(b) (c)	Write a note on different type of organic reactions. What do you understand by Dye and pigment? Explain classification of dyes on the basis of application.	04 07
		OR	
Q.5	(a)	Differentaite between unit operation and unit process.	03
	(b)	What is conductance? Explain working of conductivity meter	04
	(c)	Explain theories of dyeing.	07
