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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (New) EXAMINATION - WINTER 2018

Subject Code:2133501 Date:28/11/2018

Subject Name:Organic Chemistry

Time:10:30 AM TO 01:00 PM Total Marks: 70

Instructions:

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

(ANU)-	1	plaint the nectionism of Holmans reaction.	MARKS
Q.1*	(a)	Give IUPAC names of	03
		(i) CH=CH-CH(NH ₂)-CH=CH-CH ₂ -COOH	
		(ii) Glycerol	
		(iii) C(CH ₃) ₄	
	(b)	Write a note on Benzidine Rearragnment?	04
	(c)	Give the reactions of phenol.	07
Q.2	(a)	Why is flouro acetic acid more stronger acid than acetic acid?	03
	(b)	(a) Give R and S configuration of	04
		(i) Br (ii) C ₅ H ₁₁	
		Н—С—соон сі—с—н	
		l CH ₃ CHO	
		(b) Give E and Z configuration of	
		(2) Br NC	
		(i) CH_3 (ii) CC_2H_5	
		CI' C_2H_5 H_3C' C_5H_{11}	
	(c)	Explain mechanism of Hydroboration-oxidation reaction.	07
		OR	
	(c)	Explain Meso compounds and write a note on different methods of resolution.	07
Q.3	(a)	Explain the difference between E1 and E2 mechanism	03
	(b)	Explain conformers of Ethane.	04
	(c)	Explain SN1 mechanism in detail.	07
		OR	
Q.3	(a)	Explain the importance of knowing mechanism of any chemical reaction.	03
	(b)	Explain: Hyperconjugation and Resonance	04
	(c)	Explain the generation, stability and reactions of carbonium ion	07
Q.4	(a)	What is the importance of mechanism in organic synthesis.	03
	(b)	Explain generation and stability of carbocation	04



	(c)	Give the methods of synthesis of aromatic amines? Give the reactions	07
		of aniline with (i) Acetyl chloride (ii) Benzaldehyde (iii) Methyl	
		iodide (iv) BDC (v) Potassium Dichromate	
0.4	()	OR IN THE RESERVE OR	
Q.4	(a)	Explain ozonolysis.	03
	(b)	Give the reactions of Bromobenzene with Ethyl bromide, KNH ₂ , NiAl/NaOH and Mg/ether.	04
	(c)	In which mechanism we get inversion of symmetry? Explain it.	07
Q.5	(a)	Explain stereoisomerism in tartaric acid.	03
	(b)	Explain Cannizaro reaction.	04
	(c)	Write a note on Pinacol-Pinacolone rearrangement.	07
		OR	
Q.5	(a)	Explain conformers of butane.	03
	(b)	Write a note on aldol and cross aldol reaction.	04
	(c)	Explain the mechanism of Hofmann reaction.	07
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