(i) Prin	ted Pages: 4 Roll No
(ii) Que	stions : 9 Sub. Code : 1 7 3 5 1
1	Exam. Code: 0 0 0 4
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	B.A./B.Sc. (General) 4th Semester (2055)
CHI	EMISTRY (Same for B.Sc. Microbial & Food
diam'r.	Technology)
	Paper-XIV : Organic Chemistry-B
	A THE SHILL SHIP TO SECURE 1.5
Time Allo	owed: Three Hours] [Maximum Marks: 22
Note :	Attempt FIVE questions in all, selecting ONE question from each unit. Q. No. 9 is compulsory.
	be as the summand of the configuration of
n tiw	of the supplementary of the Acidic hydrolysis of
	Giving mechanism, discuss the Acidic hydrolysis of
	Esters.
(b)	Complete the following Reactions:
espuras (itt.)	the Description of Alexanders of Alexander, Willy a
1	(i) $CH_3$ – $C$ – $NH_2$ $\xrightarrow{KOH, Br_2}$ ?
	(i) $CH_3-C-NH_2 \xrightarrow{-} ?$
	(ii) $C_2H_5-C-NH_2 \xrightarrow{P_2O_5}$ ?
2 (0)	Give an account of order of Reactivity of acid derivatives
the second second	
c .	towards nucleophilic acyl substitution. 2
(b)	Discuss the Amphoteric Nature of Amides. 2
7 SW	

## UNIT-II

3.	(a)	Give mechanism of Acid Catalyzed King Openi	ing
		Reactions of epoxides.	2
	(b)	Explain the following terms:	
		(i) Iodine value	
	Air.	(ii) R.M. value.	2
4.	(a)	Give product of the following:	
		(i) Anisole + Hot Conc. HI →	
Š =	<u>.</u>	(ii) Ethyl Bromide + Sod. terbutoxide →	2
	(b)	Write a note on Cleansing action of Soaps.	2
		UNIT-III	
5.	(a)	What happens when Nitromethane is treated with:	
		(i) LiAlH <sub>4</sub>	
		(ii) Zn/NaOH?	2
	(b)	Describe the stereochemistry of Amines. Why can't am	ines
		exist as enantiomers?	2
6.	(a)	Write short on the following reactions:	
j.		(i) Carbylamine Reaction	
TI LE VOIL		(ii) Hofmann Bromamide Reaction.	2
	(b)	How can you separate Primary, Secondary and Ter	tiary
		amines by Hinsberg's reagent?	2

- 7. (a) Explain the reason why:
  - (i) Pyridine is more basic than Pyrrole,
  - (ii) Thiophene is more aromatic than Pyrrole? 2
  - (b) Discuss the Skraup Synthesis for quinoline with its mechanism.
- (a) Explain the relative rates of Electrophilic Substitution of Pyrrole and Benzene with the help of resonating structures.
  - (b) Complete the following reactions:

## UNIT-V

- (a) How are soaps prepared from oil or fat? Give the chemical equation.
  - (b) Why 2,4,6-trinitrophenol is called an acid? Give its chemical name.
  - (c) Arrange the following in increasing order of Basicity:
    - (i) Aniline
    - (ii) m-nitroaniline
    - (iii) p-nitroaniline
    - (iv) p-methylaniline.

2

- (d) Draw molecular orbital structure of Pyrrole.
- (e) Write down the IUPAC name of the following compound:

(f) Complete the following reaction:

$$\begin{array}{c}
O \\
-C-Cl \xrightarrow{Pd-BaSO_4}
\end{array}?$$

$$6 \times 1 = 6$$

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