Total No. of Printed Pages: 3

SUBJECT CODE NO: - Y-2005 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. S.Y (SEM-III)

Examination March / April - 2023 Chemistry Paper-VII (Organic Chemistry)

[Time: 1:3	60 Hours]	[Max. Marks: 50]
N. B	Please check whether you have got the right question paper. 1) Attempt all questions 2) Use blue or black pen only	Strain Strain Strain
Q1 a)	i) Ethyl acetateii) Ethyl chlorideiii) Ethene	10
b)	i) Knoevenagel condensation reactionii) Claisen rearrangement	BREET TO
a)	OR Explain following reaction with mechanism i) Mannich Reaction ii) Fries Rearrangement	10
b)		10
Q2 a)	How will you prepare primary amines from the following? i) Nitromethane ii) Methyl cyanide iii) Acetaldehyde	10
(a)	Explain the following reactions i) Hoffmann-bromamide reaction ii) Diazotization reaction of amine OR	10

	a)	Write short notes on following (any four)	20					
,		i) Pinacol – pinacolone rearrangement						
		ii) Acidic nature of phenol						
		iii) Benzoin condensation						
		iv) Preparation methods of tartaric acid						
		v) Basic Nature of amines						
		vi) Distinguish pri, sec and tertiary alcohol by oxidation reaction						
Q3 CI	hoos	se and write the correct answer of the following questions	210					
Q3 CI		The reaction of carboxylic acid with alcohol catalysed by cone. H_2SO_4 is called a	96					
	1)	The reaction of carboxytic acid with alcohol catalysed by cone. 112504 is called a	23					
		a) Dehydration b) Esterification						
		c) Saponification d) Neutralization						
		c) Saponification a) Treditalization						
	2)	What is the commercial method of preparation of phenol?	7					
	2)	a) Cumene process b) Dows process						
		c) From diazotization salt d) None of these						
	F	c) I folia diazotization sait d) None of these						
	3)	Which of the following reagent may be used to distinguish between phenol and						
2	, 3)	benzoic acid?						
		a) Tollen's reagent b) Aq. NaoH						
		c) Neutral Fecl ₃ d) Fecl ₃						
		c) ivental i ecis						
	4)	Acetophenone is prepared from which of the following reaction?						
	7)	a) Sandmeyer Reaction						
		b) Wurtz Reaction						
9		c) Friedel crafts Reaction						
		d) All of these						
		d) All of these						
	5)	Oxidation of isopropyl alcohol gives						
77	3)	a) Acetaldehyde b) ether						
		c) Acetic acid d) Acetone						
		c) Neede acid						
8	6)	Which class of the compound shows H-bonding even more than in alcohol?						
2	0)	a) Aldehyde b) carboxylic acid						
		c) phenol d) ether						
		c) phonor						
7)		Which of the following is the strongest acid?						
	')	a) FCH ₂ COOH b) CICH ₂ COOH						
		c) CH ₃ COOH d) BrCH ₂ COOH						

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8)	Reduction of Nitro alka a) Alcohol c) Ester	b) Amine d) None of these	Ser Ser Ser	Stratic Stratigues Stratigues Stratigues Stratigues Stratigues Stratigues Stratigues Stratigues Stratigues Str	
9)	Which of the following a) Methyl amine c) Hydroxyl amine	b) ethyl amine d) None of these	I to be most basic?	A BARC BAR	
10)	Ethyl amine undergoes compound? a) Acid c) Nitrogen oxide	oxidation in the present b) alcohol d) aldehyde	nce of KMnO ₄ to from	n which	18 18 18 18 18 18 18 18 18 18 18 18 18 1
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