Total No. of Printed Pages:02

SUBJECT CODE NO:- 2005 FACULTY OF SCIENCE AND TECHNOOGY B.Sc. S.Y Sem. III EXAMINATION JUNE/JULY 2022 Chemistry Paper-VII (Organic Chemistry)

[Time: 1:53		[Max. Marks: 50
Hours]		
	ether you have got the right question paper	
N.B 1. Attempt all questi		(6) 23, 25, 26, 26, 27, 27, 77, 77, 77, 77, 77, 77, 77, 77
2. Use blue or black	pen only.	
Q.1A)1. Explain Reimer-Tieman reaction	n with suitable mechanism	06
2. Give any two methods of prepara		04
B) 1. Explain Hell-volhard zeilinstcy r	eaction with mechanism.	06
2. Pina col-pina colone rearrangeme	ent, Explain.	04
	OR	7
C) Explain with Mechanism of Baeyerv	illeger oxidation of cyclie ketone.	10
D)How will you prepare acetic acid fro	m	10
1) CO ₂		
2) Nitrile	1. 4. 4. 4. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	
3) Ester		
4) Amide		
5) Acid Chloride		
Q.2A)Explain the reduction of Nitrobenzer	ne in acidic, basic and natural media.	10
B) Explain with mechanism Hoffmannbromide reaction.		10
	OR	
C) Write short note on (any four)	Private de la companya del companya della companya	20
1) Intermolecular fries rearrange	ement	20
2) Acidic Nature of alcohols	Sment	
3) Reaction of amine with Nitro	us acid	
4) Decorboxylation of carboxyli		
5) Ndol condensation	io uota	
6) Mannish reaction		
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10

Choose and Write the correct answer of the following questions. (answer all questions) Q.3

1) Which of the following having maximum Pka value

a.
$$CH_3 - CH_2 - CH_2 - CH_2 - OH$$

b.
$$CH_3 - CH_2 - CH_2 - OH$$

c.
$$H_3C - CH_2 - CH - CH_3$$
 OH

cH₃
d.
$$H_3C - CH_2 - C - CH_3$$

- 2) The product of fries reaction is _____
 - a. O- Hydroxy
 - c. P- Hydroxy acid

- b. O-Hydroxy acid
- d. M- Hydroxy acid
- 3) The carbon atom of carbonyl compound is
 - a. $SP^2 Hybridized$
 - c. SP Hybridized

- b. $SP^3 Hybridized$
- d. $SP^3d Hybridized$
- 4) Which of the following is the strongest acid.
 - a. Benzoic acid
 - c. P-Nitro benzoic acid

- b. P-Methoxy benzoic acid
- d. P- methyl benzoic acid
- 5) The carboxylic acid that under goes decarboxylation most readily under mild conditions is
 - a. Acetic acid
 - c. $\beta keto$ carboxyylic acid
- b. Benzoic acid
- d. All of these
- 6) Claisen rearrangement is carried out in presence of
 - a. Base
 - c. Heat

- b. Acid
- d. All of above
- 7) β amino carbonyl compound is the product of $\underline{}$
 - a. Mannich reaction

- b. Benzoin condensation
- c. Knoerengel condensation
- d. Gatlerman reaction
- 8) Which of the following does not given HVZ reaction?
 - a. Acetic acid c. Benzoic acid

- b. Phenyl acetic acid
- d. Butyric acid
- 9) Vicinal diols can be prepared by ____
 - a. Oxidation of alkanes with O_5O_4 c. Reduction of alkanes with O_5O_4

- b. Oxidation of alkene with O_5O_4 d. Reduction of alkenes with O_5O_4
- 10) Which of the following does not show aldol condensation?
 - a. Mono –chloro acetaldehyde
- b. Tri –chloro acetaldehyde

c. Acetal dehyde

d. Acetone