2019

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## SUBJECT CODE NO:- B-2005 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. S.Y. (Sem-III) Examination Oct/Nov 2019 Chemistry Paper-VII Organic Chemistry

[Time:	1:30 H	[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.					
Q.1	a)	Explain Reimer-Tiemann reaction with mechanism.		10			
	b)	How are monohydric alcohol's prepared from  1) Aldehyde  2) Carboxylic acid  3) Ketone  4) Ester		10			
	c)	Explain knovengeal condensation with mechanism.		10			
	d)	How will you prepare ketone from  1) Nitriles  2) Carboxylic acids		10			
Q.2	a)	Explain the following reactions of Nitroalkane.  1) Reduction		10			
		<ul><li>2) Hydrolysis</li><li>3) Action of Nitrous acid</li><li>4) Halogenation</li></ul>					
	b)	<ol> <li>Explain the basic nature of Amines.</li> <li>Give any one method of preparation for malic acid and tartaric acid</li> </ol>		06 04			
		OR					
		Write short notes on (any four)  1) Claisen rearrangement  2) Pinacol- Pinacolone rearrangement  3) Bayer-Villeger oxidation of ketone  4) Reduction of carboxylic acid using Li Al H <sub>4</sub> 5) Reaction of amines with nitrous acid  6) Benzoin condensation		20			

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Q.3	Choose and write the correct answer of the following questions. (Answer all questions)						
	1)	The cyanide ion $-C \equiv N$ reacts v	vith a ketone to s	pive ( )			
	1)	a) An acid		A cyanohydrin			
		c) An aldehyde	d)	An amine			
		c,					
	2)	Acetone on oxidation with chrom	ium trioxide giv				
	ŕ	a) Acetaldehyde		Acetic acid			
		c) Acetate	<b>d</b> )	Acetophenone			
	3)	Hydrolysis of benzonitrile gives .					
		a) Benzylamine	(\$ b)	Phenol			
		c) Benzene	(d)	Benzoic acid			
	4) Which of the following is not a dicarboxylic acid?						
		a) Terephthalic acid		Salicyclic acid			
		c) Succinnic acid		Malonic acid			
	5)	Which of the following is stronge	st acid?				
		a) Ethanol	(b)	Water			
		c) Phenol	$\hat{\mathbf{d}}$	Tertiary butyl alcohol			
	6)	Chlorobenzene can be converted	into phenol by h	eating it with caustic soda under pressure			
		this is known as,		999776999 1			
		a) Dow's process	(b)	Kolbes process			
		c) Fittig reaction	<b>d</b> )	Reimer-Tiemann reaction			
	7)	Which of the following reagent u	tion reaction.				
		a) Nitric acid	(b)	Nitrous acid			
	Ó	c) Nitrobenzene	d)	None of the above			
	8) Benzene diazonium chloride on reaction with phenol in weakly basic medium gives						
	6 10	a) Diphenyl ether	(b)	P-hydroxy azobenzene			
ي ر		c) Chloro benzene	d)	Benzene			
3000	9)	Ethylene glycol reacts with exces	s of Pcl <sub>5</sub> to give				
7 69,09		a) 1,1 –dichloroethane	b)	1,2 dichloroethane			
DAY A		c) 1,1,1-trichloroethane	d)	2,2- dichloroethane			
	10) Oxidation of glycerol by using conc.HNO <sub>3</sub> gives						
	POOL CO	a) Glyceraldehyde		Nitroglycerine			
		c) Tartronic acid	d)	Glyceric acid			