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## SARDAR PATEL UNIVERSITY

[38]

SEAT No.

## S.Y. B.Sc. Industrial Chemistry SEMESTER - III EXAMINATION -2022 Organic Chemistry SUB CODE: US03CICH52

DATE: 16/11/2022 DAY: Wednesday TIME: 10.00 AM TO 01.00 PM

**TOTAL MARKS: 70** 

Q. 1	Choos	se the correct answer.				[10]	
(1)	Use of Phenol is						
	(A)	The Alcoholic beverages	(C)	As Anesthetist			
	(B)	In Antiseptic	(D)	As Mosquitos	Repellent.		
(2)	Which of the Following compound in Aspirin.						
	(A)	Methyl Salicylate	(C)	Phenyl Salicylate			
	(B)	Salicylic Acid	(D)	Acetyl salicylic Acid			
(3)	Resorcinol on distillation with zinc dust gives.						
	(A)	Benzene	(C)	Cyclohexane			
	(B)	Toluene	(D)	m-Xylene			
(4)	The Carbonyl Group is						
	(A)	SpHybridised	(C)	Sp <sup>2</sup> Hybridised			
	(B)	Sp <sup>3</sup> Hybridised	(D)	None of these			
(5)	Whic	Which of the following has highest boiling point.					
	(A)	Methanal	(C)	Propanal			
	(B)	Ethanal	(D)	Butanal			
(6)	Canizaro reaction is not given by						
	(A)	Formaldehyde	(C)	Acetaldehyde			
	(B)	Benzaldehyde	(D)	None of above			
(7)	All Carbon atom in Naphthalene are						
• •	(A)	Sp Hybridised	(C)	Sp <sup>2</sup> Hybridised			
	(B)	Sp <sup>3</sup> Hybridised	(D)	None of these			
(8)	Pyridine has a de localized $\pi$ molecular orbital contain						
	(A)	5e	(C)	6e			
	(B)	9e	(D)	7e			
(9)	Catalytic hydrogenation of pyridine is						
	(A)	Pyrrole	(C)	piperidine			
	(B)	pyrrolidine	(D)	Pyrimidine			
(10)	Naphthalene Reduction undergo with Pt/4H₂ From.						
•	(A)	Tetralin	(C)	1,2-Dialin	•		
	(B)	Decalin	(D)	1,4- Dialin			

Q.2	Answer the following.(attempt ten)							
(1)	Give any two preparation of Alcohol							
(2)	Write a reaction of Alcohol							
(3)	Writ	Write willamson Synthesis for ether.						
(4)	Write down Fridal-Craft reaction of Ketone.							
(5)	Writ	Write Cross-Cannizzaro reaction.						
(6)	Write down any two preparation of Carboxylic acid.							
(7)	Write down reaction of acid Anhydride.							
(8)	Write a structure Pyridine.							
(9)	Write a source of pyridine.							
(10)	Give the resonating structure of Naphthalene.							
(11)	Give the resonating structure of Anthracene.							
(12)	Write down oxidization reaction of Naphthalene.							
Q.3	(A)	Write a note on an Alcohol as acid and bases.	[05]					
	(B)	Write a reaction of Ether Cleavage in detail.	[05]					
		OR						
Q.3	(A)	Write a note on ring substation of phenol.	[05]					
	(B)	Write down Structure of basicity of Amines.	[05]					
Q.4	(A)	Write Nucleophilic addition to Aldehyde and Ketone can be catalyzed by acid.	[05]					
	(B)	Give Addition of Alcohol in Aldehyde and Ketone.	[05]					
	OR							
Q.4	(A)	Write a note on Dicarboxylic acid	[05]					
	(B)	Write down Grignard reaction for Aldehyde and Ketone.	[05]					
Q.5	(A)	Write down electrophilic Substation reaction in Pyrrole and Furan.	[05]					
	(B)	Write a note on Basicity of Pyridine.	[05]					
		OR						
Q. 5	(A)	Write down electrophilic Substation reaction Pyridine.	[05]					
	(B)	Nucleophilic Substation reaction in pyridine.	[05]					
Q. 6	(A)	Write down Haworth's synthesis for Naphthalene.	[05]					
	And the second s							
	- •	OR	[05]					
Q.6	(A) Discuss the structure of naphthalene on basis of Chemical reaction.							
	(B)	Write the mechanism of electrophilic addition and substation reaction of Anthracene.	[05] [05]					

