V.P. & R. P. T. P. SCIENCE COLLEGE INDUSTRIAL CHEMISTRY

B. Sc. - Semester – III

COURSE NO: US03CICH22 – ORGANIC CHEMISTRY

Date & Day: 7th October 2019 TIME: 03:00 to 04:15pm

TOTAL MARKS – 25

0.1 Ar	swer the following MCOs			(05)	
1. Sodium phenoxide reacts with CO_2 at 125°C under 5 atm pressure to give salicylic					
	acid. This is called				
	A. Kolbe's reaction	C.	Wurtz reaction		
	B. Perkins reaction	D.	HVZ reaction		
2.	2. The compound most capable of hydrogen bonding is				
	A. CH3OCH2CH3	C.	Phenol		
	В. СН3СН2СН2СН3	D.	CH2CH3-S-S-CH2CH3		
3.	3. A sample of pure amine molecules is found to posses no intermolecular H-bonding				
	the amine is most likely:				
	A. Primary amine	C.	Tertiary amine		
	B. Secondary amine	D.	All of the them	Scie	
4.	4. Furan reacts with ammonia in the presence of alumina at 400°C to give				
	A. Pyridine	C.	Pyrrole	12/200	
	B. Furfural	D.	Furoic acid	KART 19	
5.	Anthracene undergoes electrophilic substitution r	react	ions mainly at *	+//	
	A. C-1	C.	C-9	Nagai	
	B. C-2	D.	C-1 and C-2	Sec. and a second s	
Q.2 Write a note on the addition of Grignard reagent in carbonyl compound for preparation of alcohol.					
	OR				
Q.2 Discuss the structure, nomenclature and physical properties of phenol.				(05)	
Q.3 Discuss the "Malonic ester synthesis of carboxylic acid".				(05)	
O 2W its a note on Aldeland and aldeland and its a				(0.5)	
Q.5 write a note on Aldol and cross-aldol condensation. (05)					
Q.4 Discuss the structure of Pyrrole.				(05)	
	OR				
Q.4 Describe about the position of electrophilic substitution in pyridine & justify attacking					
positio	n on the basis of resonating structure.			(05)	
0.5 51	OR		1 1 1 1 1		
Q.5 Electrophilic aromatic substitution reaction takes place predominantly at α -position in					
maphtr				(05)	
Q.5 Write down the Haworth synthesis of Anthracene and Phenathrene. (05)					