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Sardar Patel University B. Sc. (Semester – VI) Examination

Industrial Chemistry Vocational				
27 th N	arch 2019, Wednesday	TIME: 10:00 T	O 01:00PM	
	OURSE NO: US06CICV02 (HEA	VY AND FINE ORGANIC CHEM	(ICALS)	
			al marks: 70	
Notes: Figures to the right indicate full marks. Total marks: 70				
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014	nswer the following Multiple Choice Q	uestions (All are compulsory)	(10)	
Q.I A.	nswer the following widitiple choice Q	desirons, (i'm are compared)	()	
	Propyl alcohol reacts with aldehyde in	the presence of acid catalyst to from	n	
	A. Ketones	C. Acetals		
	B. Acid chlorides	D. Carboxylic acid.		
2.	Acetaldehyde and formaldehyde react	s with ammonia to give mainly	•	
	A. Pyridine	C. Acids		
	B. Picolines	D. None of these.		
3.	Reaction of paraldehyde with aqueous	s ammonia in the liquid phase gives		
	A. 3,5-dimethyl pyridine		•	
	B. 6-ethyl-2-methyl pyridine.			
	C. 3-methylpyridine			
	D. 5-ethyl-2-methyl pyridine.			
4.	The high pressure continuous chloring	tion of propylene yields		
	A. Acid chlorides			
	B. Ketones			
	C. Allyl chlorides			
	D. None of these.			
5.	Phosphorous Oxy chloride reacts with	phenols to form		
	A. Tri methyl phosphate			
	B. Tri aryl phosphate		•	
	C. Phosphoric acid			
	D. None of these.			
6.	Melamine can be synthesized from un	ea at ⁰ C		
	A. 410 to 430 °C	C. 390 to 410°C		
	B. 370 to 390 °C	D. None of these.		
	The action of bleaching powder on ac	etone yields	•	
	A. Carbon tetrachloride	- -		
	B. Methyl chloride	D. None of these.		
	Which catalyst is used in manufactur	e of carbon tetrachloride?		
	A. Copper	C. Alluminium.		
	B. Platinum	D. Iron boarings.		
9.	Which of the following is not miscib	le with aliphatic-cyclic hydrocarbon	iS.	
	A. DMF	C. THF		
	B. n-butyl ether	D. 2-pyrrolidone.		
1	0. Reaction of t-butyl ether with silver of	carbonate in dry ether yields		
	A. sec-butyl ether	C. n-butyl ether		
	B. iso butyl ether	D. t-butyl ether.		

	(20)
Q.2 Answer the following questions in short.	(20)
1. Write a properties and uses of "Phenol".	
2. Write a properties and uses of "Phthalic anhydride".3. Write the properties of acetylene.	
4. Give properties and uses of "Formaldehyde".	
5. Give properties and uses of "Glycerine".6. Write the properties of "Melamine".	
7. Write the uses of "Methyl chloride".	
8. Give properties and uses of "Chloroform".9. Give properties and uses of "Carbon tetrachloride".	
10. Write the physical properties of Di-butyl ether.	
11. Write the uses of "DMF".12. Write the reaction for Alkylamines.	
Q.3 With the help of flow diagram explain manufacture of following.	(10)
A. Vinyl acetate B. Acetone.	
OR OR OR OR OR	(10)
Q.3 With the help of flow diagram explain manufacture of following.A. Phenol from benzene sulfonate process	(10)
B. Phthalic anhydride from o-oxylene.	
Q.4 With the help of flow diagram explain manufacture of "Sorbitol" and "Forma	(10)
OR	. (10)
Q.4 Write a note on Glycerol and formic acid.	(10)
	(10)
Q.5 Discuss the "Chlorination of Methane". OR	(10)
Q.5 Write the detail about Dialkylaminoethanol and Tri ethanol amine.	(10)
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Q.6 Write a notes on "THF and DMSO".	(10)
OR Q.6 Write a notes on industrial solvents "Dioxane and Alkyl pyrrolidone".	. (10)
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