(26A & A-22)

Seat No.:

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## SARDAR PATEL UNIVERSITY

Examination	: <u>T.Y.B.Sc.</u>	<b>Industrial</b>	Chemistry	(Vocational), Semester:	$\underline{\mathbf{VI}}^{\mathtt{th}}$
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Day: Tuesday

Date: 28/03/2017

Session: Morning/ Evening

Time: 10:00 anto 01:00 PM

Subject/ Course Code: <u>US06CICV02</u>

Subject/ Course Title: Heavy and Fine Organic Chemicals

				TOTAL MARK	S: 70		
2.1	Choose	the correct answer.			[10]		
(1)			acetylene and acet	ic acid in the presence of a			
(-)		yields vinyl acetate.	<b>,</b>				
	(A)	Mercuric chloride	(C)	Zinc acetate			
	(B)	Charcoal	(D)	Raney-nickel			
(2)	Propag	yl alcohol reacts with a	ldehyde or vinyl	ethers in the presence of an acid			
` '		t to from	,	- · ·			
		Ketones	(C)	Acid chlorides			
	(B)	Acetals	(D)	Carboxylic acids			
(3)	Partial	oxidation of natural gas p	oroduces				
		Acetone	(C)	Acetylene			
		Methane	(D)				
(4)	Catalyt	Catalytic vapour-phase oxidation of methanol produces					
		Formaldehyde	(C)	Ethanol			
		Acetaldehyde	(D)				
(5)	The hig	The high pressure continuous chlorination of propylene yields					
	(A)	Allyl chlorides		Acid chlorides			
	(B)	Ketones	(D)	None of these			
(6)		ufacture of methyl chlori		d and passed through a			
	chlorin	ation furnace operated at					
	(A)	425°C	(C)	475°C			
	(B)	450°C	(D)	80°C			
(7)		catalyst is used in manuf	facture of carbon to				
		Copper	(C)	Platinum			
		iron boarings	(D)	Alluminium			
(8)		action of ethylene oxide					
	(A)	HC1	(C)	NaOH			
	(B)	$H_2O$	(D)	НСООН			
(9)		avy ends are separated by					
	(A)	Vacuum distillation	(C)	Extraction			
	• /	Evaporation		Fractional distillation			
(10)	The re	a continuous flow system produces	í				
	(A)	Ethanol	(C)	Methylamines			
	(B)	Fromaldehyde	(D)	None of these			

			[20]		
Q.2	This wor the Tono wing (assempt ton)				
(1)		the uses of Acrylates.			
(2)		the chemical properties of acetylene.			
(3)	Write	the uses of Melamine.			
(4)	Draw	the flow sheet for manufacture of formic acid by pyrolysis of ethylene			
	dichlo	oride.			
(5)	Write	the raw materials required for manufacture of glycerine from propylene via			
(6)	Write	the uses of ethanolamines.			
(7)	Draw powd	the flow sheet for manufacture of chloroform from acetone and bleaching			
(8)		the uses of sulfolane.	•		
(9)	Write	the reaction for manufacture of carbon tetrachloride by chlorination of			
(10)		the uses of DMF.			
(10)		the important properties of THF.			
(12)	Write	the reaction for manufacture of alkylamines from alcohol and ammonia.			
(12)	** 110	of the following the management of the property of the propert			
Q.3	(A)	Discuss the manufacture of vinyl chloride from acetylene and HCl	[05]		
۷.5	(B)	Write a short note on 1,4 butane diol.	[05]		
	( <i>D</i> )	OR			
Q.3	With	the help of flow diagram discuss the manufacture of phenol by cumene process.	[10]		
۷.5	11101	the next of free damping and the free free free free free free free fr			
Q.4	(A)	Write a short note on glycerine.	[05]		
ζ.,	(B)	Explain manufacturing process of formic acid.	[05]		
	(2)	OR			
Q.4	(A)	With the help of flow diagram discuss the manufacture of formaldehyde.	[05]		
Q. r.	(B)	Write a short note on tri phenyl phosphate.	[05]		
	(12)	The decided was paragraph of			
Q.5	(A)	Explain manufacturing process of dichloromethane.	[05]		
Q.5	(B)	Write a short note on N-alkylated ethanol amine.	[05]		
	(1)	OR			
Q.5	(A)	Write the detail about manufacture process of chloroform.	[05]		
Q.5	(B)	With the help of flow diagram discuss the manufacture of mono-, di-, tri-	[05]		
	(D)	ethanol amine.			
		Chanor annino.			
Q.6	(A)	Write a short note on DMSO.	[05]		
Q.0	(B)	Write the manufacturing process of THF.	[05]		
	(1)	OR			
06	(4)	Write the manufacturing process of diethyl ether.	[05]		
Q.6	(A)	Write a short note on dioxane.	[05]		
	(B)	Whice a short note on dioxane.	F 1		

