SE	AT NO.	No. of Pr	inted Pages : 2
E200] Sardar Patel University			
B. Sc. (Semester $-$ V) Examination			
Date: 29-12-2020, Monday Time: 02.00pm – 04.00pm			
Industrial Chemistry Vocational			
COURSE NO: US05CICV23 (Heavy and Fine Chemicals)			
Notes:]	Figures to the right indicate full marks.	Payaga ha si si mun	Total marks: 70
O.1 Ansv	ver the following Multiple-Choice Questions. (All a	are compulsory)	(10)
			(10)
1. A	fter blending, iodized salt will contain 0.01% of?		
	. Sodium thiosulfate	C. Potassium iodide	
	. Sodium carbonate	D. None of these	
	nosphoric acid is prepared from	D. Hone of these	
	. Chalcopyrite	C. None of these	
	. Cryolite	D. Rock phosphate	
	Thite phosphorus converted into red phosphorous ar		period of time.
	. 1-2 hour	C. 8-10hour	period of time.
	5-6 hour	D. 20-21 hour	
	ocess in which sodium carbonate is manufactured i		
	. Calcination	C. Solvay process	T.P. Science
	Metallurgy	D. Carbonation	loil C
	e-Blanc process is a primitive process for the manuf		liss I Ell
	. Caustic soda	C. Bromine from set	a water
	Soda ash	D. Hydrochloric aci	
	blvay process is used to make	D. Trydroemone den	. V.Nagai
	Potassium carbonate	C. NaCl	
	Sodium carbonate	D. NaOH	
	hat is the yield of the high temperature continuous		ene?
	Allyl chloride	C. Epichlorohydrin	che:
	Dichlorohydrin	D. None of these	
	hich of the following is in the presence of an electr		to the principal
nr	operties of the phosphines?	on tone pair gives fise	to the principal
-	Oxidizability		
	Ability to function as a ligand in complexes		
	Nucleophilicity	ing here i den distant	
	All of these		
	olecular formula of 1-methyl-2-pyrrolidone is		
	C ₅ H ₉ NO	ar tet, af first Ga per	
	C5H9NO ₂		
	C ₅ H ₁₀ NO		
	C ₆ H ₉ NO		
	eaction of t-butyl ether with silver carbonate in dry	ether vields	
	sec- butyl ether	C. n-butyl ether	
	iso butyl ether	D. t-butyl ether	
D.		D. I-DulyI CHICI	
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Q.2 Are the following statements true or false? (All are compulsory)

- 1. Phosphorus is used to prepare red phosphorus used in match industries. True / False?
- Triple superphosphate is a much more concentrated fertilizer than ordinary superphosphate. True / False?
- 3. Potassium bromide is not approved by the US Food and Drug Administration for use in humans to control seizures. True / False?
- 4. Potassium bromide is white crystalline powder and freely soluble in water. True / False?
- 5. Propargyl alcohol is a component in oil -well acidizing composition. True / False?
- 6. Pyridine is an excellent solvent, especially for dehydrochlorination reactions and extraction of antibiotics. True / False?
- 7. Methane reacts more readily with chlorine than with Fluorine. True / False?
- 8. The most important uses of ethanolamine are in the production of emulsifiers, detergent raw materials, and textile chemicals. True / False?
- Q.3 Answer the following short questions (Attempt Any 10 out of 12)
 - 1. Enlist the raw materials required for manufacture of triple superphosphate.
 - 2. Enlist the raw materials required for manufacture of iodine and fluorine.
 - 3. Write uses of red phosphorous.
 - 4. Write properties and uses of Potassium Dichromate
 - 5. Write properties and uses of Perchloric Acid
 - 6. Write properties and uses of Sodium Borohydride
 - 7. Enlist various uses of "Vinyl Acetate".
 - 8. Enlist various uses of "Phenol".
 - 9. Draw the flow sheet for "Acetone from Isopropyl Alcohol" process.
 - 10. Write properties and uses of "Methyl chloride".
 - 11. Write properties and uses of "Ethanolamine".
 - 12. Write properties and uses of "N-alkylated ethanolamine".
- Q.4 Answer the following Long questions (Attempt Any 04)
 - 1. With the help of flow diagram explain the manufacture of Ammonia.
 - 2. Write short note on titanium tetrachloride.
 - 3. With the help of flow diagram explain the manufacture of Oxalic Acid.
 - 4. Write short note on "Karl-fisher reagents".
 - 5. With the help of flow diagram explain manufacture of "Phenol by Cumene process".
 - 6. With the help of flow diagram explain manufacture of Phthalic anhydride from Naphthalene.
 - 7. Write a note on "DMF".
 - 8. Write a note on "THF".

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