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XII Write the uses of ethanol

No. of Printed Pages: 2

Sardar Patel University Examination
B.Sc. (Fifth Semester)
Friday,15th November, 2013
Subject code: US05CICV02 (Heavy and Fine Inorganic Chemicals) **Industrial Chemistry Vocational**

Time	e:10:	30am to 1:30pm		· · · · · · · · · · · · · · · · · · ·	Total Marks: 70			
Q-1	ı	In yellow phosphore	from given in the fo ous manufacturing, the and separated from t	e furnace gases pas	s into coolers where the	(10)		
		(a) CO ₂	(b) NH ₃	(c) CO (d)	None of these			
***	11	In HNO ₃ manufactutime of about?	ring, gas passes dow	nward with velocity	design to give a contact			
eder)		(a) $2.5 \times 10^{-3} sec$	(b) 2.5 x 10 ⁻⁴ sec	(c) 2.0 x 10 ⁻⁴ sec	(d) 2.5 x 10 ⁻² sec			
	Ш	On which content of	the raw material, the	yield of the phospho	rous based on?			
\bigcirc		(a) Silica	(b) Coke (c) C	alcium phosphate	(d) None of these			
1863 1863	IV	In bromine manufact bromine back to free		acid solution is treat	ted, which reoxidizes the			
		(a) Hydrogen	(b) Chlorine (c) F	luorine (d) Carbo	n dioxide			
	: V	When Glauber's sal solution.	t is desired, the salt	cake dissolved in ho	ot water to form			
		(a) 36ºBe	(b) 28 ⁰ Be	(c) 32 ⁰ Be	(d) None of these			
iati)	VI	The brine is first aera	ated to remove most o	of?				
((a) Hydrogen sulfide	(b) Carbon dioxide	(c) Chlorine	(d) None of these			
erby i	VII	In manufacturing of sodium bicarbonate, at which temperature carbonation tower is maintained?						
(4: N:		(a) 40 ^o C	(b) 50°C	(c) 30 ⁰ C	(d) 25°C			
	VIII	III In which solvent, sodium methoxide is soluble?						
7		(a) CH₃OH	(b) DMF	(c) CHCl ₃	(d) H ₂ O			
	IX	(a) Starch	ng most widely used f (b) Aluminum oxide		atography? (d) Calcium carbonate			
	X	Ninhydrin is used for (a) Ammonia	(b) Phenol	(c) Protein	(d) None of these			
Q-2		Answer any ten of the following:						
	1	Enlist various methods of concentration of nitric acid						
		Write uses of ammonia						
	III IV	Enlist the raw materials required for manufacture of Triple superphosphate Enlist various raw materials used for manufacture of iodine and fluorine						
	٧	Enlist the raw material and various methods used for titanium dioxide manufacturing						
	VI	Write properties and uses of perchloric acid						
	VII	Write properties of sodium borohydride						
	VIII	r r						
	IX X	Write preparation Fehling solution No.1 What is Nujol?						
	ΧI	Write the properties a	and uses of methanol					

Q-3		Enlist various methods and uses of manufacture of phosphoric acid. With the help of flow diagram explain any one method for manufacture of phosphoric acid in detail	(10)			
		OR				
Q-3		With the help of flow diagram explain the manufacture and uses of super phosphate & gypsum	(10)			
Q-4		With the help of flow diagram explain the manufacture of sodium sulfite.				
	II See a	With the help of flow diagram explain the manufacture of sodium chloride by multiple effect evaporation method.	(05)			
		OR "				
Q-4	I	With the help of flow diagram explain the manufacture of sodium sulfate from natural brine	(05)			
	II	With the help of flow diagram explain the manufacture of bromine	(05)			
		and the many of the control of the c	()			
Q-5	1	With the help of flow diagram explain the manufacture of sodium borohydride	(05)			
	II	Explain the steps ammoniation of brine and carbonation steps of solvay's ammonia (0) soda process with neat diagram for manufacture of soda ash.				
Q-5		Write a short note on following:				
	I	Sodium bicarbonate	(05)			
	11	Baking powders	(05)			
Q-6	1	With the help of flow diagram explain the manufacture of chloroform	(05)			
	II	With the help of flow diagram explain the manufacture of carbon tetrachloride OR				
Q-6	1	With the help of flow diagram explain the manufacture of ethanol using indirect hydration	(05)			
		With the help of flow diagram explain the manufacture of methanol using catalytic hydrogenation of carbon monoxide.				
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