[99] Chemical process industries

T.Y.B.Sc. SEMESTER - V (Industrial Chemistry)

EXAMINATION -2020

	SUB CODE: US05CICH23
DATE: 28/12/2020	TIME: 2.00 P.M to 4.00 P.M
DAY: monday	TOTAL MARKS: 70
Q. 1 Choose the corn	rect answer.
	ed widely in manufacture of ammonia?
(a) Fe (b) Al	(c) Si (d) Zr
(-)	emical cause reduction in ozone layer?
	ion (c) Eluorocarbons (d) None of these
	ing is the formula of calcium ammonium nitrate?
(a) 5Ca(NO ₃) ₂ NH ₄ NP	* 15 010 \ 111 110
(b) 5Ca(NO ₃) ₂ NH ₃ NP	(D.CC QIO) MILATE
	dustries use electricity as a source of
	(b) Heat (c) radiation (d) Conduction
	furnaces are used for the raw material having
	ance (b) Very high thermal resistance
(c) Sublimed matters	(d) None of these
	as chemical formula
	(b) NaHCO ₃ (c) NaCl (d) NaOH
	s the chemical formula
	(b) NaHCO ₃ (c) NaCl (d) NaOH
8. Diaphragm cell is u	sed for manufacture of
(a) Na ₂ CO ₃	(b) NaHCO ₃ (c) NaCl (d) NaOH
	luction of Phosphoric acid the reaction time range is
(a) 1.5 to 12h	(b) 1.5 to 10h (c) 1.5 to 2h (d) None of these.
X /	ed to P_2O_5 by
	(b) Wet process (c) a & b both (d) Nine of these.
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Q.2 Fill in the Blanks and True-False. [08]
1. Ammonia is the most important source of
2. Iodine used as a catalyst in the chlorination of organic compound. (True/False)
3. Pure hydrogen manufacturing by electrolysis of water. (True/False)
4.Brine electrolysis is carried out with an anode current density of 0.07 amp/cm ² (True/False)
5. The temperature require for CaC ₂ manufacture is0C.
6. Acetylene gas can be produced by the reaction of water with
7. Rock phosphate can be solubilized sulfuric acid. (True/False)
8. Triple superphosphate is made by action of phosphoric acid on phosphate rock (True/False)
Q.3 Answer the following.(attempt any 10 out of 12) [20]
1. Write Uses of Ammonia. [20]
2. Write the action of Urea as fertilizer.
3. Give the uses of iodine.
4. Write about ammonium Sulphate in brief.
5. Write the use of Hydrogen.
6. What is the different electrolyte cells used in manufacturing of NaOH?
7. Write the advantage of electric furnace.
8. Give the sources of magnesium metal.
9. Give the use of hydrogen peroxide.
10. Enlist the raw materials required for manufacture of Triple superphosphate.
11. Give the rawmaterial for manufacture of superphosphate.
12. Write the by-product from phosphorus manufacturing process.
Q4. Long Answer Question (Attempt any 4 out of 8) [32]
1. Write the manufacturing process of Urea.
2. Write a note on ammonium sulphate.
3. Write the manufacture processes of NaOH using Diaphragm Cell.
4. Explain in detail about manufacture process of Hydrogen.
5. Explain the classification of electric furnaces in detail.
6. With the suitable diagram explain calcium carbide manufacture.
7. Write a note on Wet-process of Phosphoric acid.
8. Write about Mono-Ammonium phosphate.
(ATA)