

QUESTION BANK
SUB:- Chemical Process Technology (17314)
CLASS: - CH3E

(Note: Marks for questions are given in bracket)

Chapter 1

- 1) Draw neat process flow diagram of DCDA process.(4)
- 2) How air is dried in sulfuric acid plant?(3)
- 3) Why SO_3 is not directly absorbed in water to produce sulfuric acid?(3)
- 4) Write any four industrial uses of sulfuric acid.(4)
- 5) Describe DCDA process for sulfuric acid manufacturing.(4)

Chapter-2

- 1) Explain working of ammonia converter.(4)
- 2) Draw PFD of ammonia manufacturing process.(4)
- 3) Draw PFD of nitric acid production(4)
- 4) Draw PFD of ammonium nitrate process.(4)
- 5) Draw PFD of urea manufacturing process.(4)
- 6) Describe manufacturing process of urea.(4)
- 7) Describe manufacturing process of nitric acid.(4)
- 8) Describe manufacturing process of ammonium nitrate.(4)
- 9) Describe manufacturing process of ammonia.(4)
- 10) What is biuret? How biuret formation is reduced in urea manufacturing.(3)

Chapter-3

- 1) Draw PFD of PCl_3 manufacturing process.(3)
- 2) Draw PFD of phosphorous manufacturing process(4)
- 3) Draw PFD of phosphoric acid manufacturing process by HCl leaching process.(4)
- 4) Write reactions involved in single and triple superphosphate production.(3)
- 5) Draw PFD of phosphoric acid manufacturing process by sulfuric acid leaching process.(4)
- 6) Describe manufacturing process of phosphorous.(4)
- 7) Describe manufacturing process of phosphoric acid by sulfuric acid leaching process.(4)
- 8) Describe manufacturing process of phosphoric acid by hydrochloric acid leaching process.(4)
- 9) Describe manufacturing process of PCl_5 .(3)
- 10) Describe manufacturing process of triple superphosphate.(4)

QUESTION BANK - Unit Test 2

Subject: CPT2 (17427)

Chapters covered :-

Ch.3. Oil, Soaps & Detergents (partly)

Ch.4. Paper Pulp and Rayon

Ch.5. Polymer

Ch.6. Phenol

3 Marks questions:

1. Define Iodine value
2. Define Saponification Value
3. Give the uses of hydrogenation
4. What are soaps and detergents?
5. Name four sources of cellulose for manufacture of paper
6. Write the reactions involved in sulphate process
7. What are the reactions in rayon manufacturing?
8. Write 3 properties of rayon and its 3 uses.
9. Describe methods of polymerization reaction?
10. Name two manufacturing processes of phenol and two applications of phenol

4 Marks questions:

1. Explain Hydrogenation of oil.
2. Draw flow diagram for Hydrogenation of oil
3. Give comparison of soaps and detergents
4. Draw flow sheet for continuous soap manufacture
5. What is the cleansing action of soap? Explain how soap cleans a fabric, with picture.
6. Compare sulphate and sulphite process for pulp manufacture
7. Draw flow sheet for black liquor recovery. Label each equipment.
8. List 6 important types of paper, with example
9. Describe rayon manufacturing process
10. Draw flow sheet for paper manufacturing, with moisture content in various zones.
11. Draw flow sheet for Ziegler process for Polyethylene manufacture
12. Give industrial uses of PVC / Polystyrene / Polyethylene and Polyester.
13. What is the process for manufacturing Poly vinyl chloride? What are the reactions involved?
14. Draw block diagram for manufacture of Thermocol and give the process description for same.
15. What is the structural formula of Phenol? Name 5 different production methods for Phenol.
