

## QUESTION BANK (G SCHEME)

**NAME OF SUBJECT:-CHEMICAL PROCESS TECHNOLOGY -I**

**SUBJECT CODE:17314**

**SEMESTER:THIRD**

**COURSE: CH**

### Unite test -1

#### **Chapter 1(Manufacturing of Sulfuric Acid : Specific Objective(8 MARKS)**

##### **3 marks questions**

- 1.How air is dried in sulfuric acid plant?
2. Why  $\text{SO}_3$  is not directly absorbed in water to produce sulfuric acid?

##### **4 marks questions**

- 3) Draw neat process flow diagram of DCDA process.
- 4) Write any four industrial uses of sulfuric acid.
- 5) Describe DCDA process for sulfuric acid manufacturing.

#### **Chapter-2 Manufacturing of nitrogenous chemical (22 MARKS)**

##### **3marks questions**

- 1.What is biuret? How biuret formation is reduced in urea manufacturing

##### **4 marks questions**

- 2) Explain working of ammonia converter.
- 3) Draw PFD of ammonia manufacturing process.
- 4) Draw PFD of nitric acid production
- 5) Draw PFD of ammonium nitrate process.
- 6) Draw PFD of urea manufacturing process.
- 7)Describe manufacturing process of urea.
- 8) Describe manufacturing process of nitric acid.
- 9) Describe manufacturing process of ammonium nitrate.
- 10) Describe manufacturing process of ammonia.

#### **Chapter-3 Manufacturing process of phosphorus chemicals(20 MARKS)**

##### **3 marks questions**

- 1) Draw PFD of  $\text{PCl}_3$  manufacturing process.
- 2) Write reactions involved in single and triple superphosphate production
- 3) Describe manufacturing process of  $\text{PCl}_5$

##### **4 marks questions**

- 4) Draw PFD of phosphorous manufacturing process
- 5) Draw PFD of phosphoric acid manufacturing process by HCl leaching process.
- 6) Draw PFD of phosphoric acid manufacturing process by sulfuric acid leaching process.
- 7) Describe manufacturing process of phosphorous.
- 8) Describe manufacturing process of phosphoric acid by sulfuric acid leaching process.
- 9) Describe manufacturing process of phosphoric acid by hydrochloric acid leaching process.
- 10) Describe manufacturing process of triple superphosphate.