

Question Bank (I scheme)

Name of Subject: FCE

Subject code: 22231

Semester : Second

Program: Chemical

Unit test I

Chapter 1

2 marks question

1. Name any two industries manufacturing basic chemicals.
2. Write down the steps involved in scaling up of a process.
3. Define order of reaction.
4. How reactors are classified?
5. Give classification of chemical industry based on application.

4 marks question

1. Differentiate batch reactor and continuous reactor.
2. Explain chemical kinetics in detail.
3. With neat diagram explain continuous reactor.
4. Differentiate tank reactor and tubular reactor.
5. Explain laws of thermodynamics

Chapter 2

2marks question

1. State different types of accidents.
2. Draw hazard symbol for toxic material and corrosive material.
3. Define hazard.
4. Name any two personal protective equipment each for protection of (i) head (ii) ear

4 marks question

5. Describe importance of safety in chemical industry.
6. Explain the first aid measures in case of eye injury.
7. Describe causes of accidents in laboratory.

Chapter 3

2marks question

1. Define normality and molarity of solution.

- 2 Define specific gravity.
- 3 Define wet bulb and dry bulb temperature.

4 marks question

- 4 Explain Dalton's law and Amagat's law with mathematical expression.
- 5 An aqueous solution of NaOH contains 40 gram NaOH and 50 gram water. Calculate Weight % and mol % of mixture.
- 6 2 lit KOH solution is prepared by dissolving 100 gram KOH in water. Calculate Normality and Molarity of solution.
- 7 Write the formula for weight % and mol%