

Question Bank (I scheme)

Name of Subject: FCE

Subject code: 22231

Semester : Second

Program: Chemical

Unit test II

Chapter 4

2 marks question

1. Define pH of a solution
2. Classify the following solutions as acids or bases:
i) pH=8 ii) pH= 5
3. What is the effect of the following on electrical conductivity
i) concentration ii) pH
4. Define solubility.
5. What is refractive index?
6. What is the effect of temperature and concentration on refractive index?

4 marks question

1. Explain the effect of temperature on solubility.
2. With a neat diagram explain the construction of pH meter.
3. Explain the principle and working of pH meter.
4. With a neat diagram explain the construction of conductivity meter
5. Explain the principle and working of conductivity meter
6. Explain construction and working of Abbe s refractometer.

Chapter 5

2 marks question

1. Name any two unit operations used for separation of slurry.
2. What are unit processes? Explain any one in detail.
3. Explain distillation.
4. Explain nitration with chemical reaction.
5. Explain sulfonation reaction with chemical reaction.
6. Explain esterification reaction with chemical reaction.

7. Explain evaporation.

4 marks question

1. Explain absorption in detail. Give an example.
2. Explain oxidation and reduction with examples.
3. What are the advantages of doing size reduction in Chemical industry?
4. Differentiate between unit process and unit operation?
5. With neat sketch explain working of magnetic drum separator.
6. Explain the modes of heat transfer with examples.