

B.Sc. Sem. – IV**Industrial Chemistry, Paper- ICHCC-404, Subject Code: 21023****Subject Title–Fundamentals of chemical engineering and analytical chemistry–I****Time:2.30Hours****Maximum Marks: 70**

- Que.1 (A) State and explain principle, working and application of muller mixer. [10]
(B) Define mixing with example. [04]
- OR
- Que.1 (A) Discuss various types of specific gravity scale with example. [10]
(B) Define molality with example. [04]
- Que.2 (A) State and explain principle, working and application of falling film evaporator. [10]
(B) Define evaporation with example. [04]
- OR
- Que.2 (A) State and explain principle, working and application of spray column extractor. [10]
(B) Define extraction with example. [04]
- Que.3 (A) Explain chemical properties and application of sodium potassium tartrate and potassium bicarbonate. [10]
(B) Explain chemical properties and application of lithium aluminium hydride. [04]
- OR
- Que.3 (A) Explain chemical properties and application of methyl violet and methylene blue. [10]
(B) Explain chemical properties and application of ninhydrine. [04]
- Que.4 (A) How industrially sorbitol is manufactured? [10]
(B) Give industrial application of sorbitol. [04]
- OR
- Que.4 (A) How industrially formic acid is manufactured? [10]
(B) Give industrial application of formic acid. [04]
- Que.5 (A) Write a brief note on chlorination of methane. [10]
(B) State and explain application of zeolite as catalyst. [04]
- OR
- Que.5 (A) Write a brief note on diethyl ether. [10]
(B) Write about methyl ethyl acetoacetate. [04]