

13 APR 2019

Seat No. _____

Examination March / April – 2019

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 tray dryer.. [10]
(B) Define drying with example. [04]
OR
- Que.1 (A) Write a note on fundamental and derived units. [10]
(B) Explain dimensions analysis with example. [04]
- Que.2 (A) State and explain principle, working and application of packed column absorber. [10]
(B) Define absorption with example. [04]
OR
- Que.2 (A) State and explain principle, working and application of draft tube crystallizer. [10]
(B) Define crystallization with example. [04]
- Que.3 (A) Explain chemical properties and application of sodium carbonate and sodium bicarbonate. [10]
(B) Explain chemical properties and application of potassium bicarbonate. [04]
OR
- Que.3 (A) Explain chemical properties and application of oxalic acid and succinic acid. [10]
(B) Explain chemical properties and application of methyl violet. [04]
- Que.4 (A) How industrially phthalic anhydride is manufactured? [10]
(B) Give industrial application of phthalic anhydride. [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 dioxane. [10]
(B) Explain chlorination of methane with chemical equation. [04]
OR
- Que.5 (A) Write a brief note on THF. [10]
(B) Write about DMF. [04]