

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2020 COURSE)
B.Tech.Sem - IV CHEMICAL : WINTER- 2022
SUBJECT : CHEMICAL TECHNOLOGY

Day : Tuesday

Time : 02:30 PM-05:30 PM

Date : 29-11-2022

W-24443-2022

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labelled diagrams **WHEREVER** necessary.

Q.1 Describe the various industries under the Umbrella of chemical process industries. Illustrate their importance. (10)

OR

Q.1 Describe Dual process for the manufacture of Soda ash. (10)

Q.2 Draw the neat flow diagram for the production of ammonia by monte-cenis process and illustrate. (10)

OR

Q.2 Illustrate safety measures in storage and handling of Ammonia. (10)

Q.3 Illustrate the uses of ABS. Alkyl benzene sulfonates and also describe any one process for the production of it. (10)

OR

Q.3 Write short notes on:
i) Extraction of Oil from seeds
ii) Oil purification (10)

Q.4 What is fermentation? How it is carried out in chemical process industry on commercial scale. Illustrate with suitable example. (10)

OR

Q.4 Illustrate various types of starch and describe any one method for production of Starch in industry. (10)

Q.5 Illustrate applications of Terpenes and natural pigments. Also mention their types. (10)

OR

Q.5 Describe the commercial process for the extraction of plant pigments in industry. (10)

Q.6 Describe the manufacture of phenol with a neat process flow- diagram. (10)

OR

Q.6 Write short notes on:
i) PVC
ii) Importance of phthalic anhydride (10)

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