

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2021-COURSE)
B. Tech. Sem - I CHEMICAL : WINTER- 2022
SUBJECT : CHEMICAL ENGINEERING (SCOPE & SIGNIFICANCE)

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 18-01-2023

W-24049-2022

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
 - 3) Use of non-programmable calculator is **allowed**.
 - 4) Assume suitable data **WHEREVER** necessary.
 - 5) Draw neat diagram **WHEREVER** necessary.
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Q.1 What is origin of Chemical Engineering? What is its role in national economy? (10)

OR

Q.1 What is role of Chemical Engineer in chemical and allied industry? (10)

Q.2 Which are important heat transfer operations? Explain their role of Chemical Industry. (10)

OR

Q.2 What is unit process? Which are applications of unit processes in Chemical Industry? (10)

Q.3 Which are importance of petroleum and petrochemical industry in context of national economy? (10)

OR

Q.3 Which are unit operations used in petroleum industry? What is their role and significance? (10)

Q.4 Which industry is called as pharmaceutical industry? What is their impact on national economy? (10)

OR

Q.4 Which are unit operations involved in food industry? What is their significance? (10)

Q.5 What is the role of Chemical Engineer in synthesis of agro-chemicals? (10)

OR

Q.5 Which are importance agro chemicals? What is their social and economic impact? (10)

Q.6 Which are sources of air pollution? What is role of Chemical Engineer in air pollution control? (10)

OR

Q.6 Which are water treatment methodologies to maintain water quality parameters? What is the economic impact of maintaining water quality? (10)
