

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY (VSSUT), ODISHA
Odd Mid Semester Examination for session 2025-26

COURSE NAME: B. TECH

SEMESTER: 3rd

BRANCH NAME: CHEMICAL ENGINEERING
SUBJECT NAME: CHEMICAL PROCESS TECHNOLOGY

FULL MARKS: 30

TIME: 90 Minutes

Answer All Questions.

The figures in the right-hand margin indicate Marks. *Symbols carry usual meaning.*

- Q1. Answer all Questions. [2 × 3]
- a) What is Fertilizer ratio? - CO1
 - b) What is the difference between Emulsion and Suspension polymer? - CO2
 - c) What is the difference between Combined and Free Ammonia still? - CO3
- Q2. [8]
- Describe briefly about the manufacturing process of Ammonia through Haber Bosch process. - CO1
- OR
- i) Discuss about the requisite of a fertilizer. - CO1
 - ii) Discuss about the benefits of fertilizer.
- Q3. [8]
- Describe briefly about the manufacturing process of Polyethylene with neat and labelled flowsheet. - CO2
- OR
- Describe briefly about the classification of polymers. - CO2
- Q4. [8]
- Describe briefly about the manufacturing process of Caustic Soda with neat and labelled flow chart. - CO3
- OR
- Describe briefly about the manufacturing process of Soda ash with neat and labelled flow chart. - CO3