

CBCS SCHEME

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18CH35

Third Semester B.E. Degree Examination, June/July 2023 Chemical Technology - I

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1 Explain in detail any four method of Softening of water. (20 Marks)

OR

- 2 a. What are the causes of hardness of water? (05 Marks)
b. Write the disadvantages of hard water. (05 Marks)
c. What are the different types of Compressors? Explain any one in detail. (10 Marks)

Module-2

3 With a neat flowchart, explain in detail about the production of O₂ and N₂ by Lindi's Double Column method. (20 Marks)

OR

- 4 a. With a neat flow chart, explain about the Production of Sulfuric Acid. Highlight the major Engineering problems encountered. (14 Marks)
b. Write the advantages and disadvantages of the Catalyst used. (06 Marks)

Module-3

5 With a neat flow chart, explain in detail about the production of Soda Ash by Solvay process. High light the major Engineering problems encountered. (20 Marks)

OR

- 6 a. How Cement is classified? Explain. (06 Marks)
b. With a neat flow chart, explain in detail about the production of Portland Cement. Highlight the major Engineering problems. (14 Marks)

Module-4

7 With a neat flow chart, explain about the production of urea by Ammonium Carbonate Decomposition method. Highlight the major Engineering Problems Encountered. (20 Marks)

OR

- 8 With a neat flow chart, explain in detail about :
a. Super Phosphate b. Triple Super Phosphate. (20 Marks)

Module-5

- 9 a. What are the raw materials required for the manufacture of Glass? (10 Marks)
b. Write in detail about the manufacture of Glass. (10 Marks)

OR

- 10 a. With a neat flow chart, explain about the Production of Zno. (10 Marks)
b. Write in detail about the Constituents of Paints. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.