

Register No.:

488

April 2024

Time - Three hours
(Maximum Marks: 100)

- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
 2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART - A

1. Define Hardness.
2. What are the effects of scales in boilers?
3. Write some of the uses of Soda Ash.
4. How chlorine gas is liquefied?
5. What are the raw materials used for Nitric acid manufacture?
6. What are the raw materials used for urea manufacture?
7. Define Black Liquor.
8. What is Iodine value and Acid value?
9. What are thermoplastic and thermosetting plastic?
10. List some uses of Polyethylene.

PART – B

11. (a) Explain the principle, construction and working of an aerator.
(Or)
(b) Explain water softening by demineralization.
12. (a) Explain the classification and different grades of glass.
(Or)
(b) Explain the manufacture of portland cement with a flow sheet.
13. (a) Draw a neat flow chart and explain the manufacture of phosphoric acid.
(Or)
(b) Explain the manufacturing process of Triple Super Phosphate with a neat flow chart.
14. (a) Explain the manufacture of paper with a neat flow chart.
(Or)
(b) Explain the manufacture of sunflower oil from the seeds.
15. (a) Explain the manufacture of Styrene Butadiene Rubber with a neat flow chart.
(Or)
(b) Explain the different types of polymerization with their advantages and disadvantages.
