

Register No.:

614

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. What is hardness of water?
2. What is total dissolved solids?
3. What is trickling filter?
4. Write a note on Lagoon treatment.
5. Write about recovery of salt from salted hides.
6. Write down the properties of leather board.
7. What is meant by chrome recovery?
8. Write about recycling techniques in leather industry.
9. What is the significance of protein meals in live stock feeds?
10. How the animal hairs are utilized?

[Turn over.....

PART – B

11. (a) Write a detailed note on characteristics of tannery effluent.
(Or)
(b) Give an account on recycling and reuse of water in leather industry.
12. (a) Discuss about the primary and secondary treatment methods adopted in tannery effluent.
(Or)
(b) Give an account on the following: (5+5+4)
(i) Coagulation (ii) sedimentation (iii) Flocculation.
13. (a) Give a detailed note on the tannery by-products.
(Or)
(b) Explain the manufacturing aspects of glue and gelatin from chrome shavings.
14. (a) Discuss about the various methods involved in solid waste management in leather industry.
(Or)
(b) Discuss about the various methods involved in liquid waste management in leather industry.
15. (a) Write a brief note on animal by-products and their availability.
(Or)
(b) Discuss about the processing of blood and their utilization.
