

Register No.:

970

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. Write a short note on BIS norms.
2. What is the percentage basicity of chrome liquor?
3. Write a note on gelatin test.
4. Name any three qualitative test methods of vegetable tannins.
5. What are the test methods involved in analysis of oils and fats?
6. What is COD?
7. Why microscopical assessment is carried out for vegetable tanned leather?
8. What is sterilization?
9. Why physical testing is important for leather?
10. Write down the various fastness test followed in the physical testing of leather.

[Turn over.....

PART - B

11. (a) Discuss about the preparation of sampling position for chemical testing of leather with a neat diagram.  
(Or)  
(b) Discuss about the method of determination of chromium content in chrome liquor.
12. (a) Discuss any five quantitative test methods adopted for testing vegetable tanning extracts.  
(Or)  
(b) Write a note on:(5+5+4)  
(i) Iron Alum Test.  
(ii) Acetic Acid, Lead Acetate Test.  
(iii) Phenol Formaldehyde Test.
13. (a) What is Iodine Value? Write down the detailed test procedure adopted to determine the Iodine Value of oil.  
(Or)  
(b) Discuss about the method of determination of COD and BOD in the tannery effluents.
14. (a) Give a detailed note on the study and setting up of Microscope.  
(Or)  
(b) Give an account on the following biochemical procedures:(5+5+4)  
(i) Damage caused by moulds to leathers  
(ii) Inoculation  
(iii) Staining of Bacteria
15. (a) Write a detailed procedure to determine the tensile strength of leather.  
(Or)  
(b) Write a brief note on the following physical testing methods:  
(i) Hydrothermal stability  
(ii) Rub fastness test.

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