



[Time: 3 Hours]

[Max. Marks: 75]

**Cosmetic Analysis and Evaluation**

**Q.P. CODE: 5152**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

**LONG ESSAY (Answer any Three)**

**3 X 10 = 30 Marks**

1. Define acid value, saponification value and peroxide value. How do you determine these values? Write their applications in cosmetic analysis.
2. Explain the principle, instrumentation and application of Sebumeter and Trans epidermal water loss equipment.
3. Explain the sampling and various tests for any one skin care and hair care products as per Bureau of Indian Standards.
4. Explain the principle, instrumentation and application of equipment used to measure hair tensile and hair combing properties.

**SHORT ESSAY (Answer any Nine)**

**9 X 5 = 45 Marks**

5. Write a note on determination of heavy metals in cosmetic finished products.
6. Add a note on general method of analysis of antioxidant used in cosmetic formulations as per BIS.
7. Write the various evaluation tests for tooth paste as specified by standards.
8. Add a note on performance evaluation of abrasiveness of dentifrices.
9. Explain the method of analysis of any one preservative in cosmetic products.
10. Define peroxide value. Write the principle and procedure for the determination of peroxide value of products.
11. Write the principle and application of equipment used to measure the skin colour with neat diagram.
12. Define rancidity. Explain in brief about various types and determination of rancidity in cosmetic products.
13. Describe briefly the procedure for quality control test of wax used in cosmetic formulation.
14. Write a note on evaluation parameters and analysis of fragrances used in cosmetic products.

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