

1. Discuss on the structure of hair and hair growth cycle. Explain the reasons and treatment for dandruff.
2. Describe the different ingredients used in the formulation of tooth paste and shampoo.
3. Discuss on cosmetic preparation for protecting skin from harmful UV rays.
4. Describe the role of surfactants in cosmetic preparations. Add a note on different types of surfactants used in cosmetics.

**SHORT ESSAY (Answer any Nine)**

**9 X 5 = 45 Marks**

5. Write a note on soaps.
6. Define and classify perfumes used in cosmetic industries.
7. Write a note on herbal ingredients used in skin care.
8. What are the challenges in formulation of herbal cosmetics?
9. Explain the chemistry and impact of praphylene diamines in hair dyes.
10. What is INCI? What is it's importance in cosmetic industry?
11. Explain cleansing and care needs of face and body.
12. Explain the factors influencing performance of preservatives in cosmetics.
13. Explain the issues related to use of parabens in cosmetic products.
14. What are rheology modifiers? Classify rheology modifiers.

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