

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM - SEMESTER– 8 EXAMINATION – SUMMER -2023**

**Subject Code: BP809TT**  
**Subject Name: Cosmetic Science**  
**Time:10.30 a.m. to 1.30 p.m.**

**Date: 30/06/2023**

**Total Marks: 80**

**Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

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|-------------|--|-----------|
| <b>Q.1</b>  | (a) Define cosmetics as per Indian and EU regulations. Discuss the role of humectants and emollients in various cosmetic preparations with examples. | <b>06</b> |
|             | (b) Discuss basic structure of hair and explain hair growth cycle with diagram.  | <b>05</b> |
|             | (c) Discuss in brief the cosmetic problems associated with skin.   | <b>05</b> |
| <b>Q.2</b>  | (a) Discuss evolution of cosmeceuticals from cosmetics, cosmetics as quasi and OTC drugs.  | <b>06</b> |
|             | (b) Write a note on dermatitis and enlist cosmetical products used for dermatitis.   | <b>05</b> |
|             | (c) Discuss common problem associated with teeth and gums.   | <b>05</b> |
| <b>Q.3</b>  | (a) Describe the mechanism of body odour with involvement of different glands. Give similarities and difference Deodorant and Perfume.               | <b>06</b> |
|             | (b) Classify Sunscreens and discuss in detail role of SPF in sunscreen formulations with examples.   | <b>05</b> |
|             | (c) Write a short note on dandruff. Discuss formulation of antidandruff shampoo.   | <b>05</b> |
| <b>Q.4</b>  | (a) Discuss the role of dimethicone in various hair care cosmetics.  | <b>06</b> |
|             | (b) Classify skincare cosmetics. Discuss formulation and evaluation of vanishing cream.  | <b>05</b> |
|             | (c) Discuss role of neem & clove in oral care.   | <b>05</b> |
| <b>Q.5</b>  | (a) What is Bandrowski's base? Classify Hair Dye with example and discuss the hair color formation process of para dye.                              | <b>06</b> |
|             | (b) Justify: Shampoo is cosmetic for scalp and conditioner is cosmetic for hair.   | <b>05</b> |
|             | (c) Describe humectants and surfactants as cosmetic building block materials.  | <b>05</b> |
| <b>Q. 6</b> | (a) Draw a labelled diagram of skin. Summarize the characteristics and general functions of each layer of skin.                                      | <b>06</b> |
|             | (b) Enlist toothpaste formulation ingredients with example and write a note on BIS specification for toothpaste.                                     | <b>05</b> |
|             | (c) Discuss hygral fatigue and mention the importance of silicones in hair oil formulation.  | <b>05</b> |
| <b>Q.7</b>  | (a) Explain the principles of sebumeter and corneometer for cosmetics evaluation.  | <b>06</b> |
|             | (b) Define and explain the specific role of aloe and turmeric as skin care cosmetics.  | <b>05</b> |
|             | (c) Explain causes and treatment for dry skin.   | <b>05</b> |

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