

Duration: 2 hrs

Total marks: 40

- N.B.:** 1. All questions are compulsory  
2. Figures to right indicate full marks

**Q.1** Choose the appropriate option for following multiple choice based 10 questions.

- 1 Amongst the following classes, which one belongs to the class of Nonionic surfactants
- a Acylamine
  - b Alkylamine
  - c Alkanolamides
  - d Carboxylic acid
- 2 Animal model used for eye irritancy testing of shampoo is-
- a Guinea pig
  - b Rabbit
  - c Albino rats
  - d Sheep
- 3 Brushless shaving cream is a what type of emulsion?
- a Water in oil
  - b Microemulsion
  - c Multiple
  - d Oil in water
- 4 Suncare and Suntans are classified as \_\_\_\_\_
- a Body cosmetics
  - b Makeup cosmetics
  - c Hair care cosmetics
  - d Oral care cosmetics

5 \_\_\_\_\_ wax is used in the lipstick preparation?

- a Carbowax
- b Para aminosalicylic acid wax
- c Ozokerite wax
- d Cetrimide emulsifying wax

6 The main application of foundation cream is:

- a To form a base for application of powders/make-up
- b To form a foundation for the formulation of facial creams
- c To mix it with fatty acids for preparing soluble lotions
- d To protect the skin from infection

7 Zinc Pyrithine in shampoo is used as

- a Conditioner
- b Antidandruff agent
- c Cleansing agent
- d Surfactant

8 In mouthwashes Zinc chloride and tannic acid act as \_\_\_\_\_.

- a Astringents
- b Cooling agents
- c Anti-enzymes
- d Flavouring agents

9 Baby shampoo contains \_\_\_\_\_ as surfactant.

- a Sodium lauryl sulphate
- b Amphoteric imidazole derivatives
- c Benzalkonium chloride
- d Soap

10 Which one of the following answers 'Is there a difference in my product?'

- a Discriminative analysis
- b Descriptive analysis
- c Preferential analysis
- d Adaptive analysis

**Q. 2 A Answer any one question.**

- I**
  - a. Describe packaging of lipsticks. **3**
  - b. Discuss different functions of mouthwash. **3**
- II**
  - a. Describe open patch test in detail. **3**
  - b. Explain discrimination testing in sensorial evaluation for cosmetic products. **3**

**Q. 2 B Answer any four questions**

- I**
  - a. Give the mechanism of hair straighteners. **3**
  - b. Elaborate on quality control tests of nail lacquer. **3**
- II** Write a Short note on **6**
  - a. Brushless shaving cream
  - b. Surfactants in cosmetics
- III**
  - a. Describe defects in lipsticks and suggest remedies for the same. **3**
  - b. Enlist various types of rouge. Discuss any one type. **3**
- IV**
  - a. Discuss colorants used in eye makeup preparations. **3**
  - b. Write in brief about the need for sensitivity testing of cosmetics. **3**
- V**
  - a. Explain the mechanism of bleaching creams. What are the side effects associated with them? **3**
  - b. What are moisturizers? How are they formulated? **3**

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