

Instructions: 1. All questions are compulsory

2. Figures to the right indicate marks

Q.1 Answer ANY TEN of the following:

(10 x 2 = 20mks)

- i) Differentiate between Cleansing and Exfoliation.
- ii) Mention few ideal characteristics of a good Face Powder.
- iii) State the function of the following with examples:
  - a) Conditioning agent
  - b) Emollient
- iv) State the basic components of hair dye and explain its principle.
- v) Define Herbal cosmetics.
- vi) Mention some medicinal benefits of *Azadirachta indica*.
- vii) Differentiate between Extract and Tinctures.
- viii) Write any two techniques involved in chemical evaluation of herbal formulations.
- ix) Identify the source, name and draw the structure of the compound present in it that imparts fragrance.



- x) a) Give a point of difference between Antiperspirant and Deodorant.  
b) Name two natural fragrances listed as allergens by the Scientific Committee on Consumer Safety.
- xi) Define "Flavours". Draw the structure of a flavoring agent intrinsically present in Cinnamon.
- xii) Why are Middle notes in perfumery also referred to as "Heart Notes"?
- xiii) a) Name any two methods of extraction of heat-stable phytochemicals from plant sources.



- xiv) Mr. Aryan is suffering from severe hair fall and dandruff, suggest a suitable formulation of hair shampoo, knowing that he only uses herbal products.

**Q.2) A) i)** Discuss about any 3 basic ingredients used in cosmetic preparation, giving its uses and examples. (3mks)

ii) Nowadays many people experience various hair problems. Mention few ways on how we can take care of our hair. (2mks)

**OR**

iii) State the uses of each ingredients used in the preparation of Sunscreen. (3mks)

iv) Define Cosmetics as per European Union. (2mks)

**Q.2) B) i)** Write a note on preparation of Herbal Cream, emphasizing on its formulation, manufacturing, quality control, packing and storage. (5mks)

**Q.3) A) i)** State the advantages and disadvantages of using herbal medicine. (3mks)

ii) Briefly explain any two herbs/ plants having sunscreen properties. (2mks)

**OR**

iii) Discuss the benefits of Hibiscus for hair. (3mks)

iv) What do you understand by the term "cold pressed oils"? (2mks)

**Q.3) B) i)** Give the name and structure for the following. (3mks)

a) An essential oil with antibacterial properties used in soothing dry skin and eczema.

b) A macrocyclic ketone obtained from the civet cat.

c) An alternative to the macrocyclic ketone obtained from civet cat.

ii) Explain the working of three-part smell of perfume upon application onto the skin. (2mks)

**Q.4) A) i)** Read the following passage and answer the questions carefully. (3mks)

Kiara is working as a supervisor in a perfume manufacturing industry at Paris. There is an external inspection scheduled in the company. She walks around the perfume formulation site and checks the complete formulation details given the datasheet. Following ingredients were mentioned in the formulation for Angel Perfume spray: Lavender Oil, 40% alcohol, benzyl alcohol, etc.

a) What is the role of lavender oil in the perfume formulation?

b) Define fixative.

Q.4) A) i) Read the following passage and answer the questions carefully.

(2mks)

(3mks)

Kiara is working as a supervisor in a perfume manufacturing industry at Paris. There is an external inspection scheduled in the company. She walks around the perfume formulation site and checks the complete formulation details given the datasheet. Following ingredients were mentioned in the formulation for Angel Perfume spray: Lavender Oil, 40% alcohol, benzyl alcohol, etc.

- a) What is the role of lavender oil in the perfume formulation?
  - b) Define fixative.
  - c) Mention the fixative used in the formulation.
- ii) What is AZG? Explain the mechanism of action of AZG in antiperspirant. (2mks)



OR

iii) Read the following passage and answer the questions carefully.

Edith has medicinal plantations in the backyard of her home at Mannheim. She is interested in growing peppermint plants.

- a) Which compound is present in this plant and what is its medicinal use? (2mks)
- b) Mention two functional groups present in a molecule which are responsible for imparting fragrance. (1mark)
- iv) Define "Notes" in perfumery. State any two factors that will strengthen or weaken the notes of a perfume. (2mks)

Q.4) B) i) Explain briefly how to cleanse and take care of our Hands and Feet. (5mks)

Q.5) A) i) Apart from using cosmetic products, what are the important lifestyle practices to achieve a healthy glowing skin. (3mks)

ii) Mention the benefits of *Cucumis sativus* and *Symphytum officinale* for skin/hair. (2mks)

OR

- iii) a) Write two points of difference between Attar and Perfume. (2mks)
- b) Which of the following sources are good choices for base notes in perfumes?

Vanilla, Lemon, Musk, Geranium, Neroli (1mark)

iv) State the uses of the following ingredients in preparation of shaving cream:

- a) Triethanolamine (2mks)
- b) Hydroquinone
- c) Potassium Hydroxide
- d) Stearic acid

Q.5) B) i) Explain briefly the various processes involved in the development of herbal formulations. (5mks)