

Duration: 2 hrs

Total marks: 40

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

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

- 1 Which one of the following has been mentioned in Schedule MII related to the manufacturing of creams?
 - a. Heating kettle
 - b. An area of 15 square meters
 - c. Flameproof electrical fitting
 - d. Dust collector
- 2 _____ are the hygroscopic materials used in skin cosmetics to avoid drying of the formulation
 - a. Emollients
 - b. Humectants
 - c. Astringents
 - d. Surfactants.
- 3 Which type of sun rays cause sunburn?
 - a. UV A
 - b. UV B
 - c. UV C
 - d. IR
- 4 Stable form of cocoa butter is having a melting point of ____°C
 - a. 25
 - b. 35
 - c. 45
 - d. 55
- 5 A plasticizer and a high boiling point solvent used in the preparation of nail lacquers are
 - a. Butyl stearate
 - b. Ethanol
 - c. Ethyl lactate
 - d. Acetone
- 6 Addition of _____ to nail polish preparation improves flexibility and lasting power
 - a. Acetylated monoglycerides
 - b. Di-butyl acetate
 - c. Di-butyl phthalate
 - d. Resins
- 7 Which is an example of cationic surfactant?
 - a. Tween 80
 - b. Benzalkonium chloride
 - c. Propylene Glycol
 - d. Span 80

- 8 Brushless shaving cream is _____ emulsion.
a. water in oil
b. microemulsion
c. multiple
d. oil in water
- 9 Dicalcium phosphate dihydrate is used as _____ in tooth paste.
a. humectant
b. abrasive
c. gelling agent
d. detergent
- 10 In Sensorial analysis, sensory panels guide product development while _____ help with market acceptability
a. consumers
b. manufacturers
c. fomulators
d. scientists

Q. 2 A Answer any one question.

- I** Discuss raw materials used in formulation of lipsticks. Elaborate on evaluation of lipsticks. **6**
- II** a. What are manufacturing requirements for nail lacquer as per schedule M(II) **3**
b. Classify sunscreen agents. Give ideal properties of sunscreen agents. **3**

Q. 2 B Answer any four questions

- I** a. Discuss ideal properties of any two baby products **3**
b. State the labelling requirements of cosmetics. **3**
- II** a. Elaborate on 'Anti Lice preparations' **3**
b. Write a short note on preservatives in cosmetics. **3**
- III** a. Give significance or need of sensorial evaluation for cosmetics. **3**
b. Give two examples each of abrasives and detergents used in tooth powders. **3**
- IV** a. Write a short note on 'Hair colorants'. **3**
b. Write a note on insect repellents. **3**
- V** a. Differentiate between cold cream & vanishing cream. **3**
b. Explain in brief formulation of face pack. **3**