

# Question Paper

Exam Date & Time: 16-May-2024 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Cosmetic Science [PCE-BP809ET -S1]

Marks: 75

Duration: 180 mins.

### I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) Langerhans cells are present in: (1)
- [Stratum basale](#)
  - [Stratum spinosum](#)
  - [Stratum granulosum](#)
  - [Stratum lucidum](#)
- 2) One of the following is not a Cosmetic product (1)
- [Protective- Boric Acid Powders](#)
  - [Decorative- Lipstick, Nail Polishes](#)
  - [Therapeutic- Anti-Perspirant Sprays](#)
  - [Cleansing- Face washes](#)
- 3) One of the following statement is NOT TRUE for SURFACTANTS (1)
- [Surfactant means surface active agent.](#)
  - [Surfactants form micelles at Critical Micellar Concentration](#)
  - [Surfactants are compounds that increases the surface tension.](#)
  - [Surfactants may act as detergents, emulsifiers, dispersants](#)
- 4) Epidermis does not helps in - (1)
- [Immune protection](#)
  - [Vitamin D synthesis](#)
  - [Acts as Antimicrobial agent](#)
  - [Limit water loss](#)
- 5) Wet combability is measured under controlled conditions with an objective method using (1)
- [Hair Combs](#)
  - [Rings](#)
  - [Hair Combing Rings](#)
  - [Hair Combing Rig](#)
- 6) Sebum measurement by Sebumeter is based on the principle of (1)
- [UV spectrophotometer](#)
  - [Liquid chromatography](#)
  - [Microscopy](#)
  - [Greasespot photometry](#)

7) Keratin found in human hair is (1)

[Carbohydrate](#)

[Lipid](#)

[Protein](#)

[Vitamin](#)

8) One of the below mechanism cannot be used to measure TEWL (1)

[Open chamber](#)

[Closed chamber](#)

[Half open chamber](#)

[Ventilated closed chamber](#)

9) Soap is a ----- salts of various naturally occurring fatty acids (1)

[Sodium or potassium](#)

[Sodium or calcium](#)

[Calium or sodium](#)

[None](#)

10) The word "Syndet" is derived from "synthetic" combined with \_\_\_\_\_ (1)

[Soap](#)

[Detergent](#)

[Acid](#)

[All of above](#)

11) One of the major problems with vegetable dye is; (1)

[Bad appearance](#)

[Severe skin irritation](#)

[Highly](#)

[expensive](#)

[Stains the finger](#)

12) Identify the effective preservative used in a toothpaste. (1)

[Methyl parahydroxy benzoates](#)

[Propylene glycols](#)

[Hydrogen peroxide](#)

[Para phenols](#)

13) Toxicity of oxidation dye is mainly due to: (1)

[o-phenylenediamine](#)

[Phenylenediamine](#)

[Phenyldiamine](#)

[p-phenylenediamine](#)

14) Periodontal disease can be prevented by using one of the following preparations. (1)

[Cleansing type](#)

[Mouth wash type](#)

[Therapeutic type](#)

[Powder type](#)

15) Identify one of the important ingredients in mouth wash. (1)

[Sodium bicarbonate](#)

[Dilute sodium hypochlorite](#)

- [Sodium benzoate](#)  
[Sodium hypochlorite](#)
- 16) In sunscreen products, it is essential to add a suitable excipient, if natural oils are used. (1)
- [Antioxidants](#)  
[Buffers](#)  
[Complexing agents](#)  
[Preservatives](#)
- 17) Identify one specific organic chemical is considered as effective UV filter. (1)
- [Tinosorb](#)  
[Oxybenzone](#)  
[Iron oxide](#)  
[Titanium oxide](#)
- 18) Accelerated stability study conditions for cosmeceuticals are performed at one of the below conditions as per ICH guidelines. (1)
- [40°C±3°C /75% RH±2%](#)  
[40°C±1°C /75% RH±3%](#)  
[40°C±2°C /75% RH±5%](#)  
[40°C±2°C /70% RH±2%](#)
- 19) Identify the ingredient present in Aloe vera; (1)
- [Starch](#)  
[mixtures](#)  
[Volatile oils](#)  
[Limonoids](#)  
[Anthraquinones](#)
- 20) Haldi, an herbal drug is specifically considered for one of the following. (1)
- [Oral care](#)  
[Eye care](#)  
[Hair care](#)  
[Skin care](#)

### II Long Answers

Answer all the questions.

- 21) Explain the following with a suitable example. (10)  
a) Face wash and b) Vanishing creams.
- 22) Explain the hair growth cycle. Describe surfactants with examples (10)

### III Short Answers

Answer all the questions.

- 23) What is a Toothpaste? Briefly discuss key formulation aspects. (5)
- 24) Write a short note on use of Turmeric for skin care. (5)
- 25) Briefly discuss on important additives in shampoos. (5)
- 26) Discuss types of sunscreen products with examples. (5)
- 27) What are the common problems associated with oral cavity? Discuss. (5)
- 28) Briefly explain the mechanisms to measure skin colour. (5)

29)

List the causes for dry skin. Compare and contrast oily and dry skin.

(5)

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