2. What ls TEWL and how is it measured? (1+4=5)

3. Write a note on the corneometer. (5)

4. What is gingivitis? With a neat flow chart, explain the development of tooth decay or dental caries. (1+4=5)

5. Write a note on physical and chemical sunscreen. (5)

6. With a neat diagram, discuss the five different layers of the epidermis. (5)

7. Discuss about halitosis and tooth sensitivity. (2.5+2.5=5)

8. Write a note on Sun Protection Factor (SPF). (5)

9. Discuss the role of turmeric in cosmeceutical products. (5)

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B.Pharm Even Semester Examination, May, 2025

PHARMACEUTICAL SCIENCES

(8th Semester)

Course No: BP-809ET

(Cosmetic Science)

FM: 75

Time: 3 Hours

The figures in the right margin indicate full marks for the question

I. A. Multiple Choice Questions: 1x10=10

1. Zinc pyrithine in shampoo is used as

   (a) Conditioner (b) Cleansing

   (c) Antidandruff agent (d) Detergent

2. An agent used to clean the surface of teeth and thereby decrease tooth decay, mouth odour is _____

   (a) Abrasive (b) Dentifrice

   (c) Dental paste (d) Dental cone

3. The fungus responsible for dandruff is _____

   (a) *Enterococcus faecalis*

   (b) *Moraxella catharralis*

   (c) *Lactobacillus* spp

   (d) *Malassezia globose*

4. Vanishing Cream is an ointment that may be classified as

(a) Water soluble base (b) Oleaginous base

(c) Absorption base (d) Emulsion base

5. Following are the examples of anti-caries agent expect

(a) Sodium fluoride

(b) Strontium chloride

(c) Stannous fluoride

(d) Sodium mono-fluoro phosphate

6. _____ play an important role as a touch receptor.

(a) Langerhans cells (b) Merkel cells

(c) Melanocytes (d) Keratinocytes

7. Melanin is present in _____ layer of the hair shaft.

(a) cuticle (b) cortex

(c) medulla (d) papilla

8. _____ radiation is responsible for the synthesis of vitamin D in the skin.

(a) UVC (b) UVAI

(c) UVAII (d) UVB

9. Curcumin is the main curcuminoid compound found in _____

(a) turmeric (b) *Aloe vera*

(c) neem tree (d) clove

10. On the scalp, the telogen phase of hair growth usually lasts for approximately _____

(a) 2 years (b) 3 years

(c) 2 to 3 months (d) 6 months

I. B. Objective questions: 2x5=10

1. What is the main chemical used in permanent hair dyes?

2. List any two actives used in antiperspirants.

3. What are different types of melanin?

4. Enlist evaluation test for shampoo.

5. What are quasi drugs?

II. Long answers (Answer any two questions) 10x2=20

1. Describe the principal building blocks in the formulation of oral care products. (10)

2. Write in detail about chemistry, formulation and application of paraphenylenediamine in hair dyes. (4+4+2=10)

3. What are the basic functions of epidermis? Explain the hair growth cycle with a neat diagram. (3+7=10)

III. Short answer type (Answer any seven questions) 5x7=35

1. What is cold cream? Give its method of preparation with example. (1+4=5)