

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai

Approved by Pharmacy Council of India, New Delhi.

Coimbatore -641035

COURSE NAME : COSMETIC SCIENCE- BP809ET

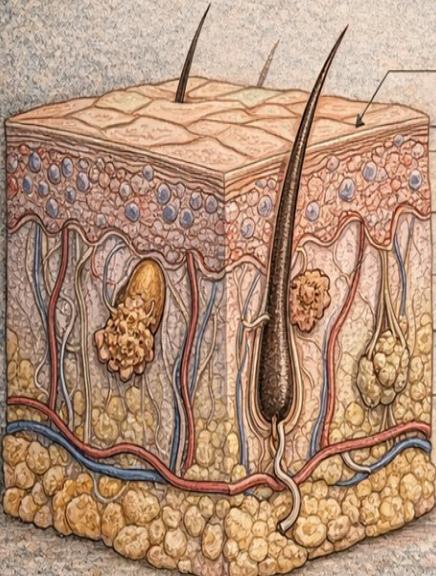
B.PHARM IV YEAR / VIII SEM

UNIT 1

SUB TOPIC : SKIN, HAIR AND ORAL CAVITY

Introduction to Skin Structure

Skin is the largest organ of the human body



Epidermis

- Acts as a protective barrier against physical, chemical, and microbial damage



Dermis

- Maintains body temperature and water balance
 - Sweat glands
 - Blood vessels

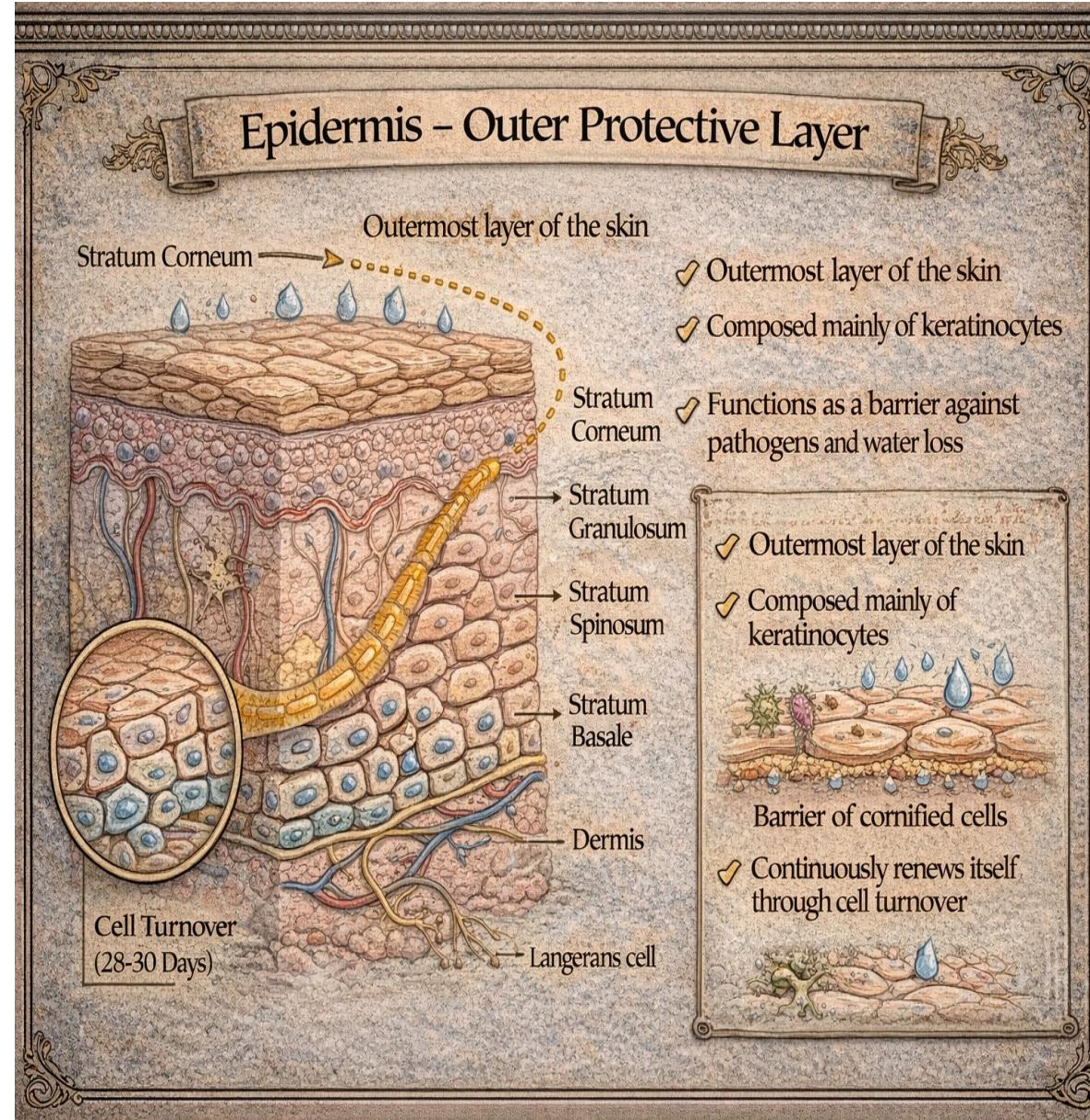


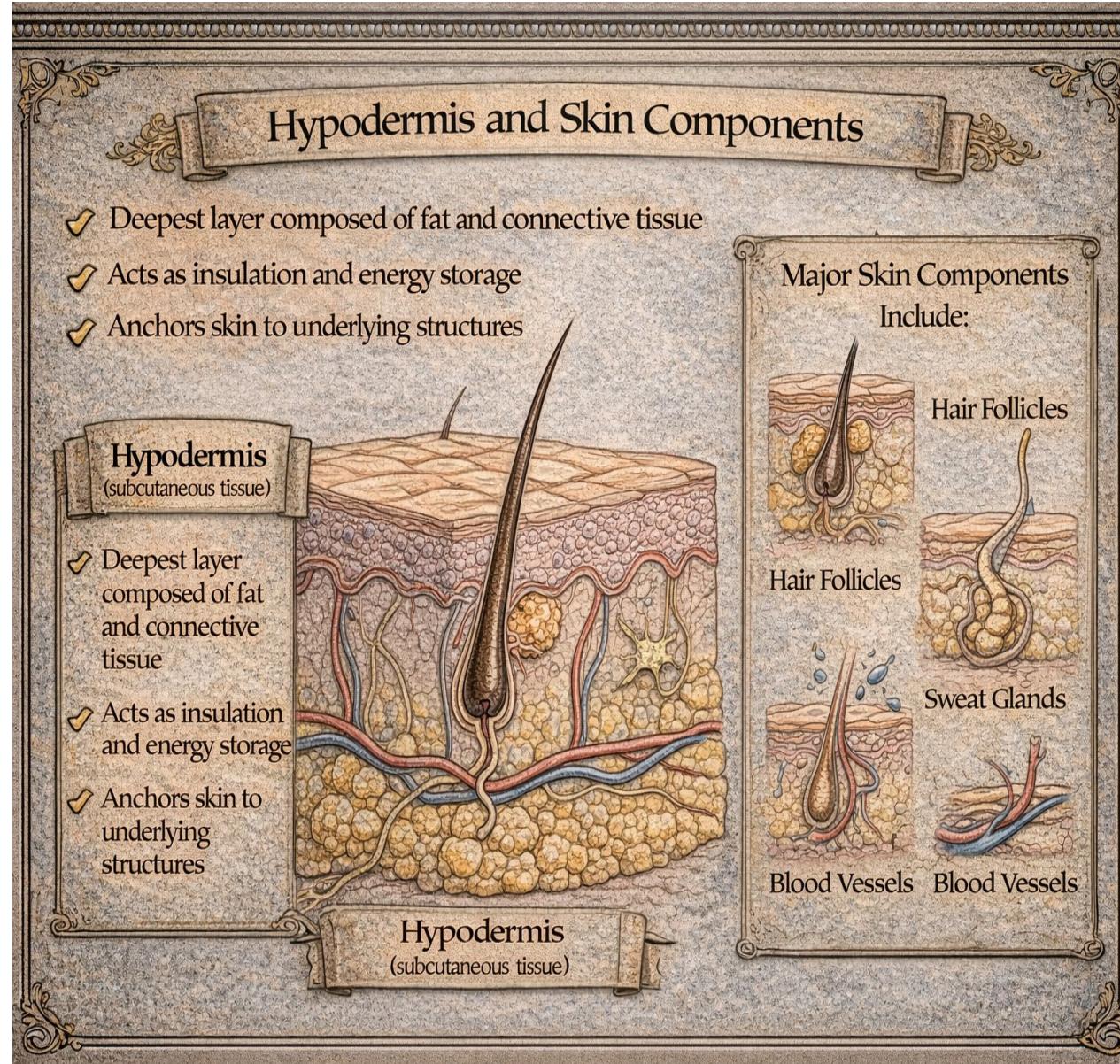
Dermis

Hypodermis (subcutaneous tissue)

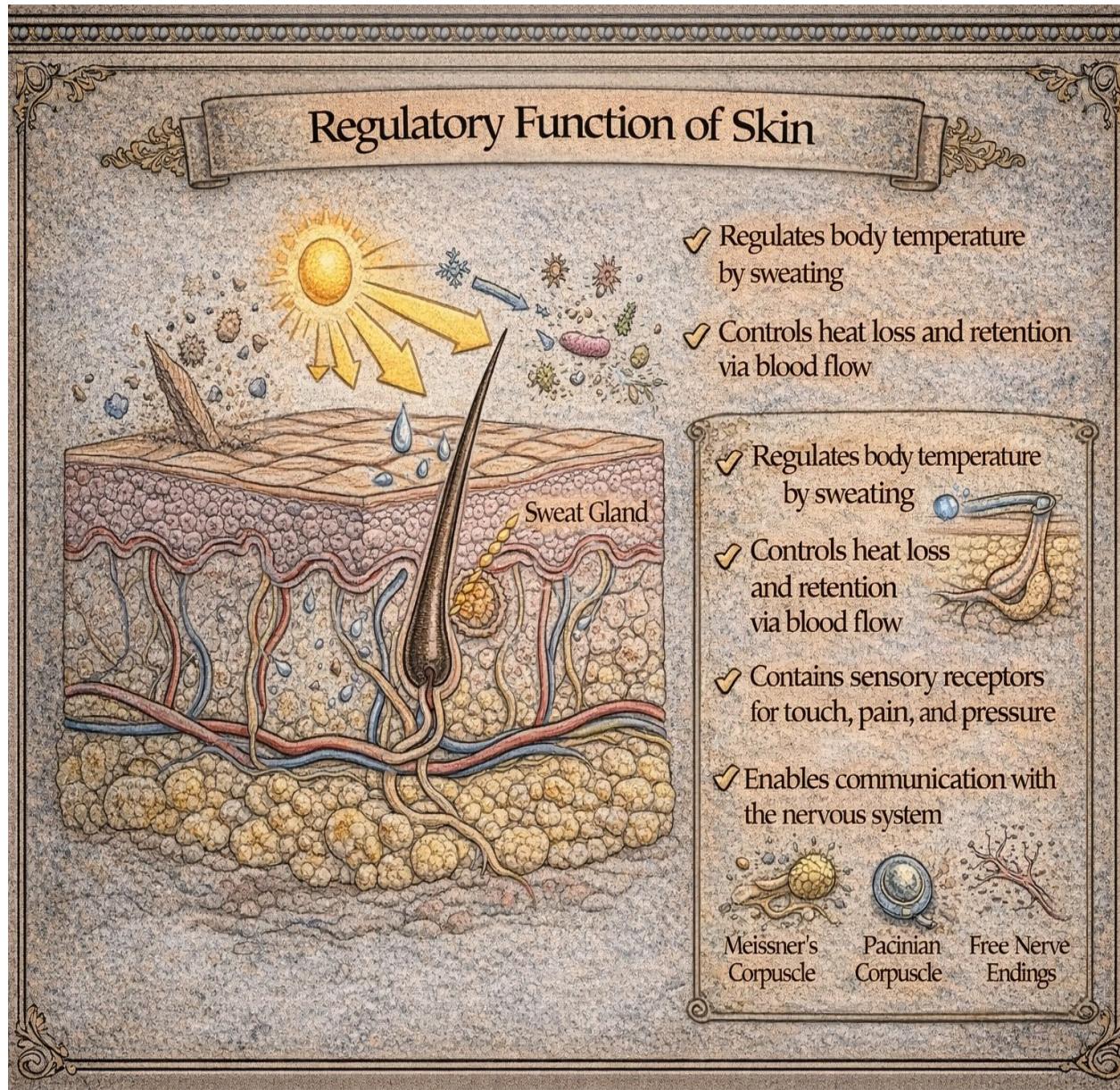
- Plays a role in sensation and immune defense
 - Nerve endings for touch, pain, heat, cold
 - Langerhans cells protect against pathogens







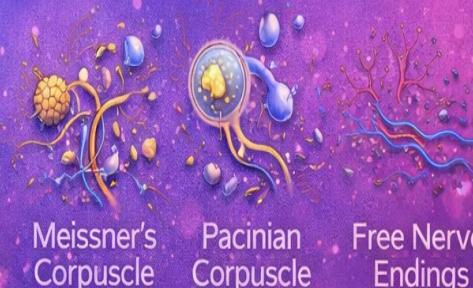


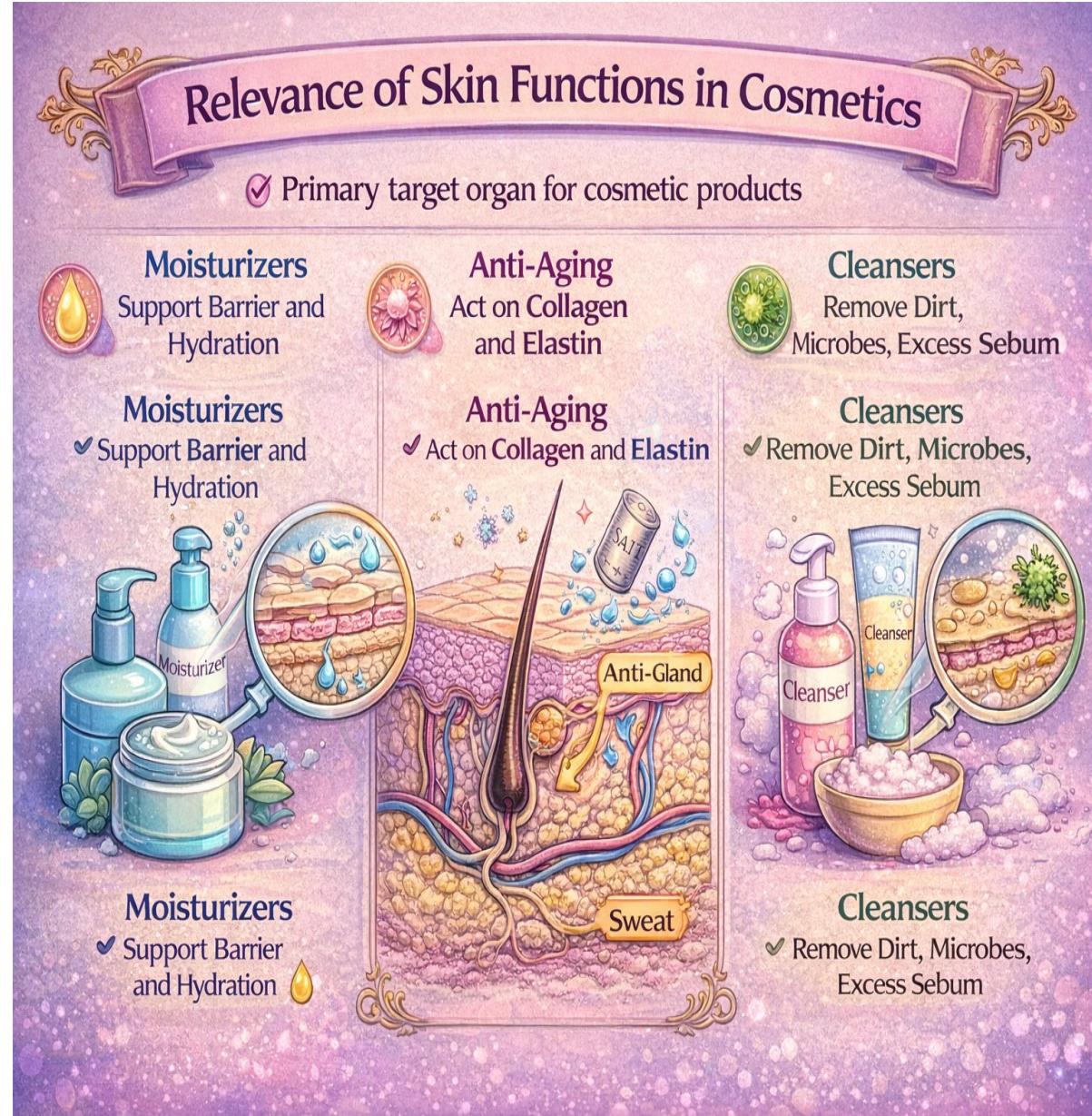


Synthetic and Excretory Functions



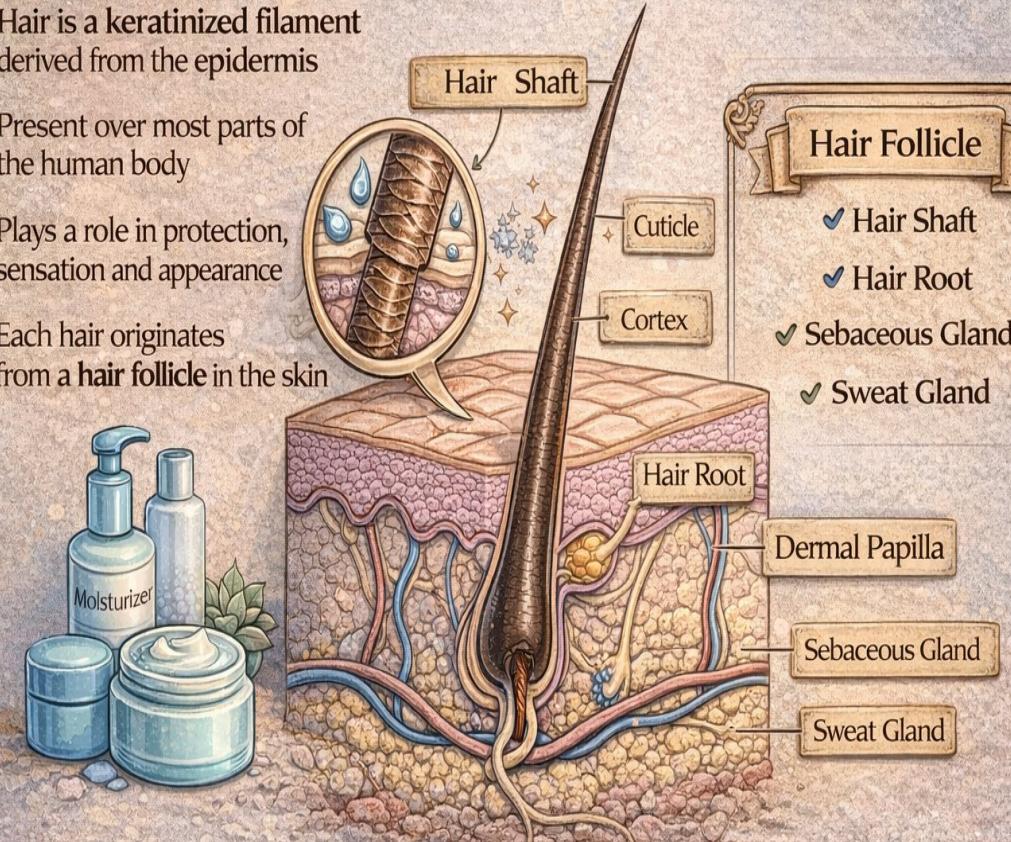
- ✓ Synthesizes Vitamin D upon UV exposure
- ✓ Essential for **calcium absorption** and bone health
- ✓ Excretes waste products such as salts and urea through sweat
- ✓ Supports metabolic balance.





Introduction to Hair Structure

- ✓ Hair is a keratinized filament derived from the epidermis
- ✓ Present over most parts of the human body
- ✓ Plays a role in protection, sensation and appearance
- ✓ Each hair originates from a hair follicle in the skin



Hair Follicle

- ✓ Hair Shaft
- ✓ Hair Root
- ✓ Sebaceous Gland
- ✓ Sweat Gland

Basic Structure of Hair

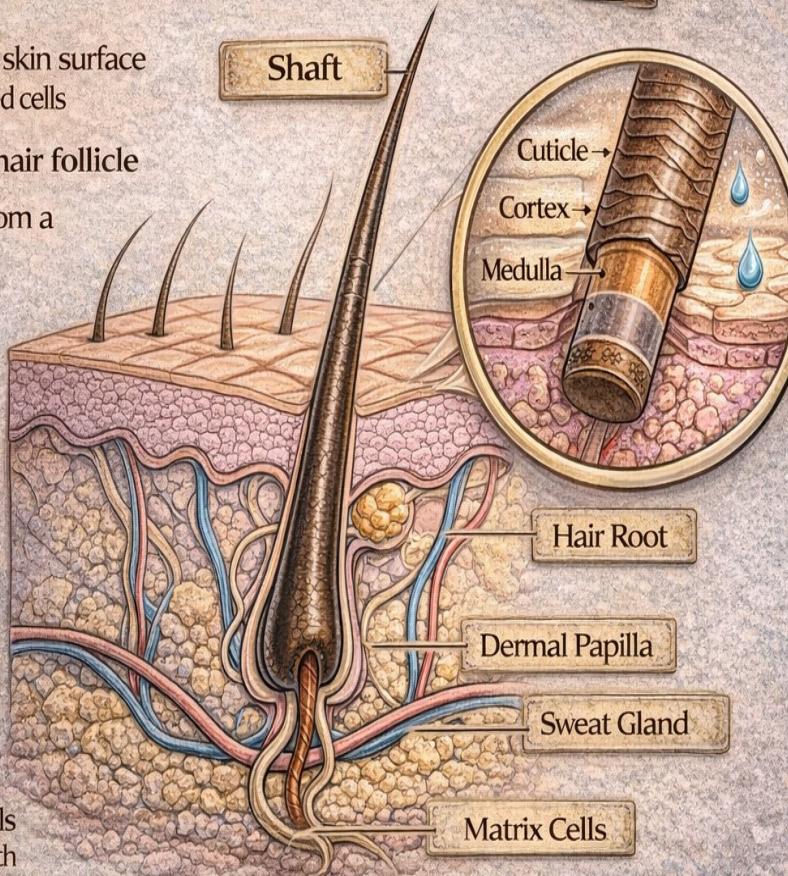
- ✓ Visible part above the skin surface
Made of dead, keratinized cells
- ✓ Embedded inside the hair follicle
- ✓ Each hair originates from a hair follicle in the skin

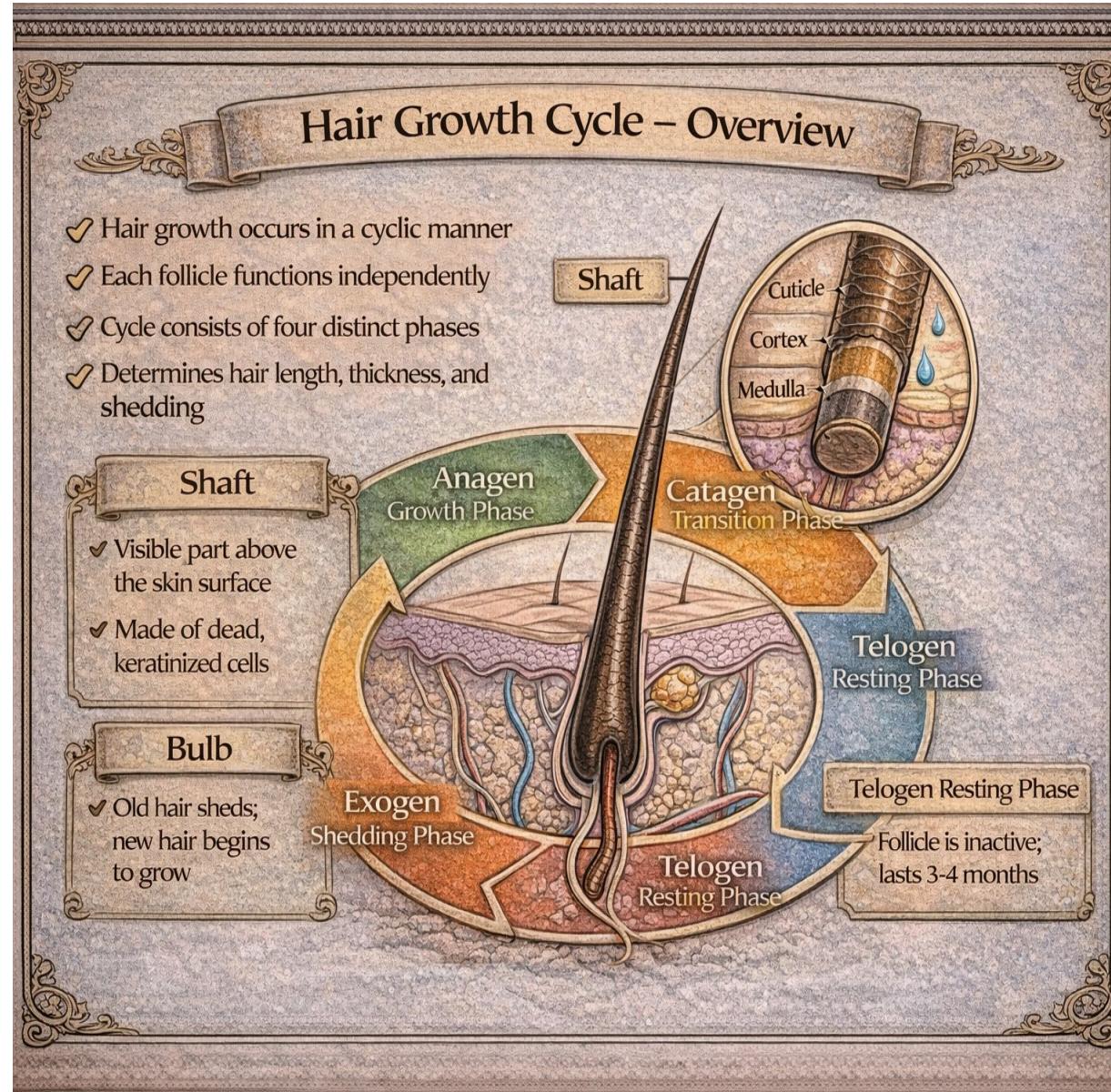
Shaft

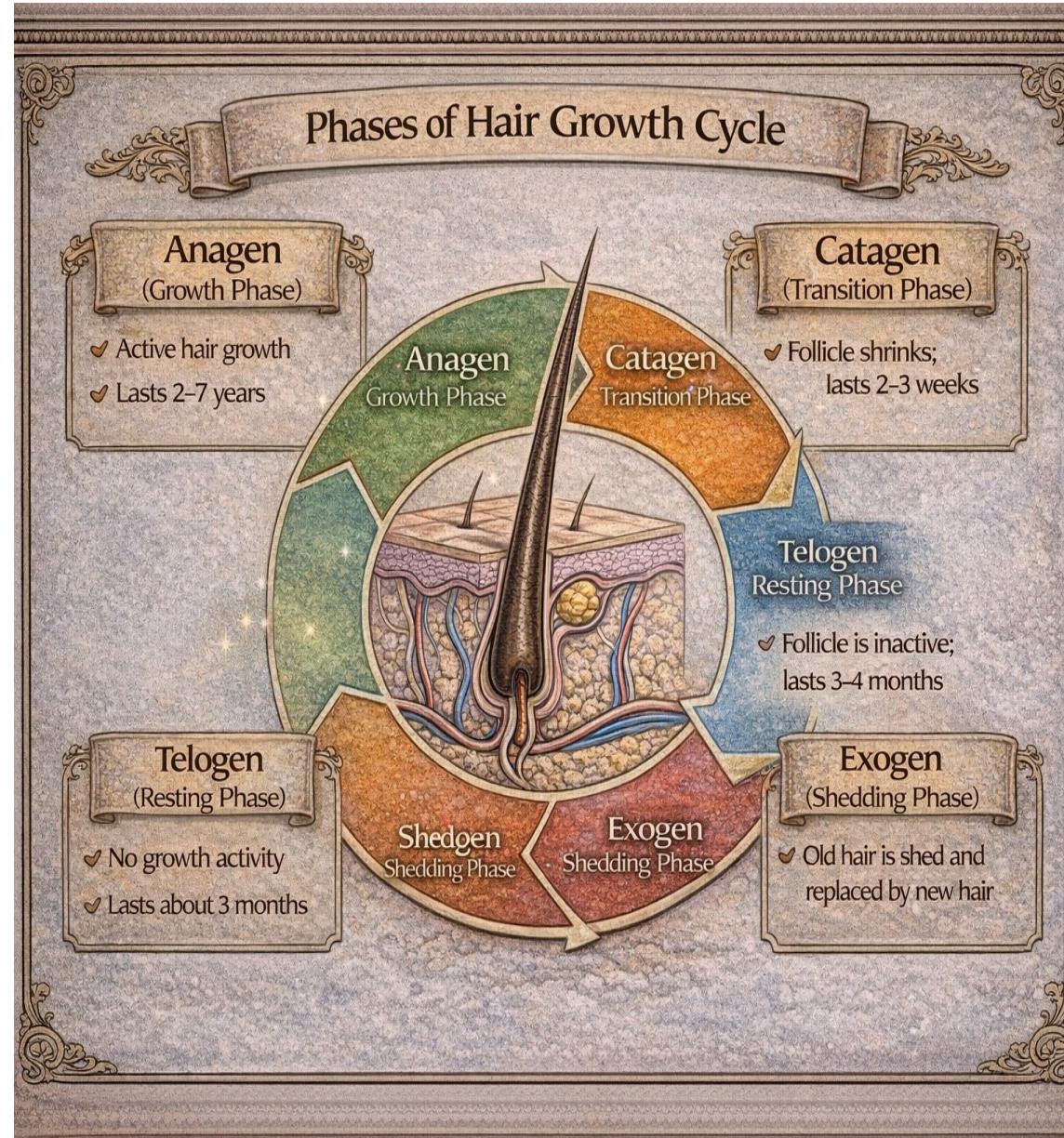
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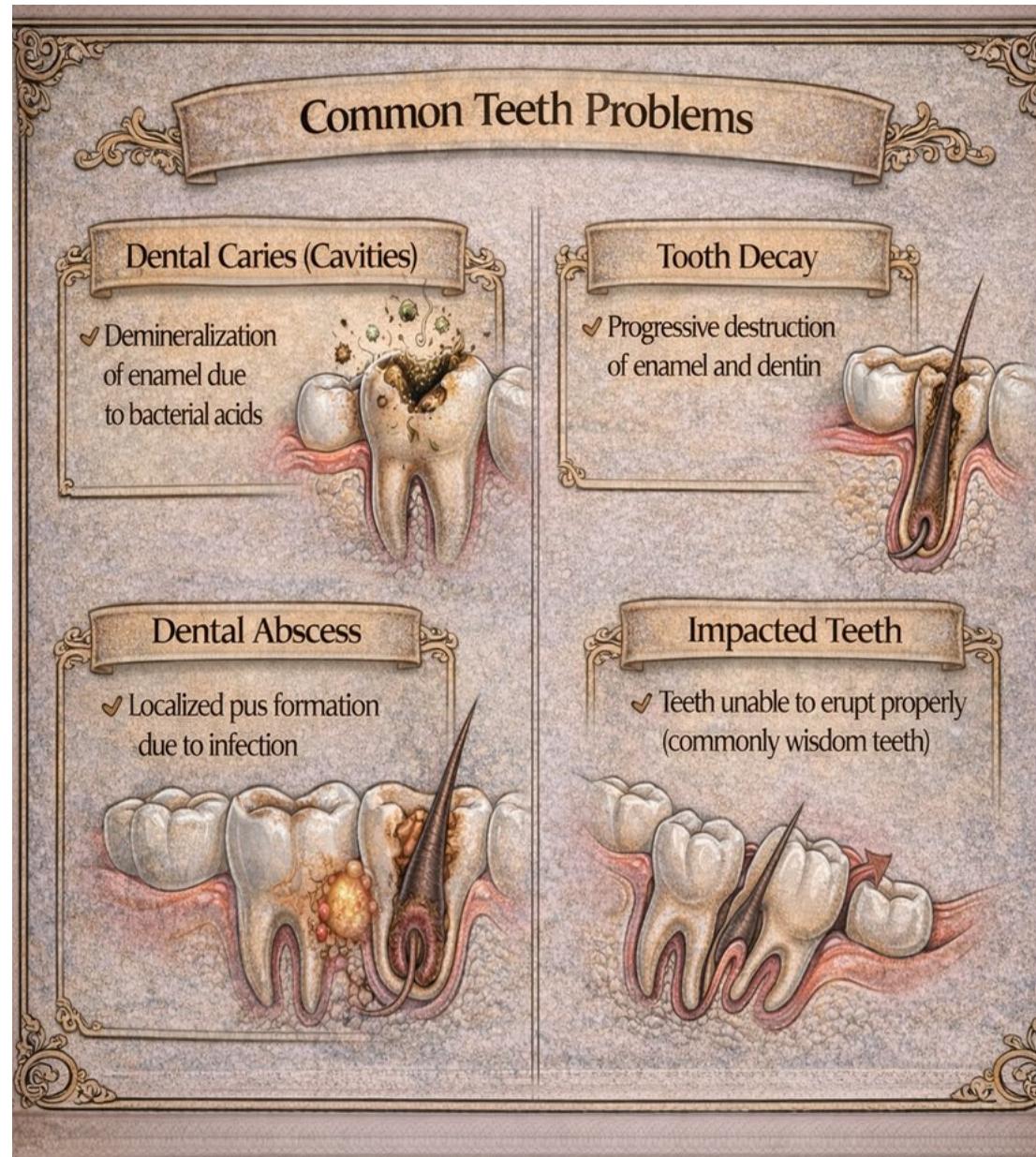
Root

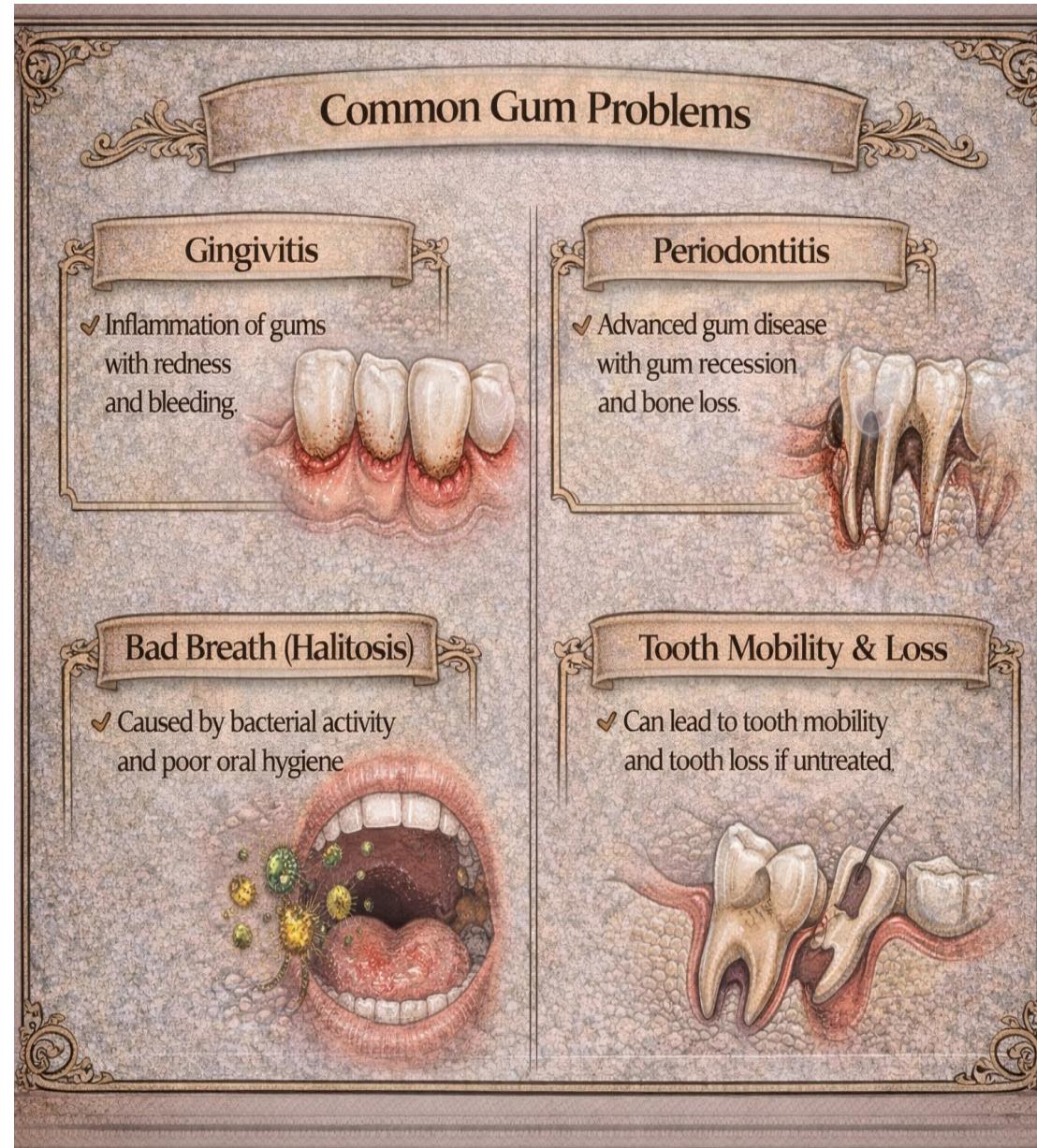
- ✓ Enlarged base of the root
- ✓ Contains the matrix cells responsible for hair growth

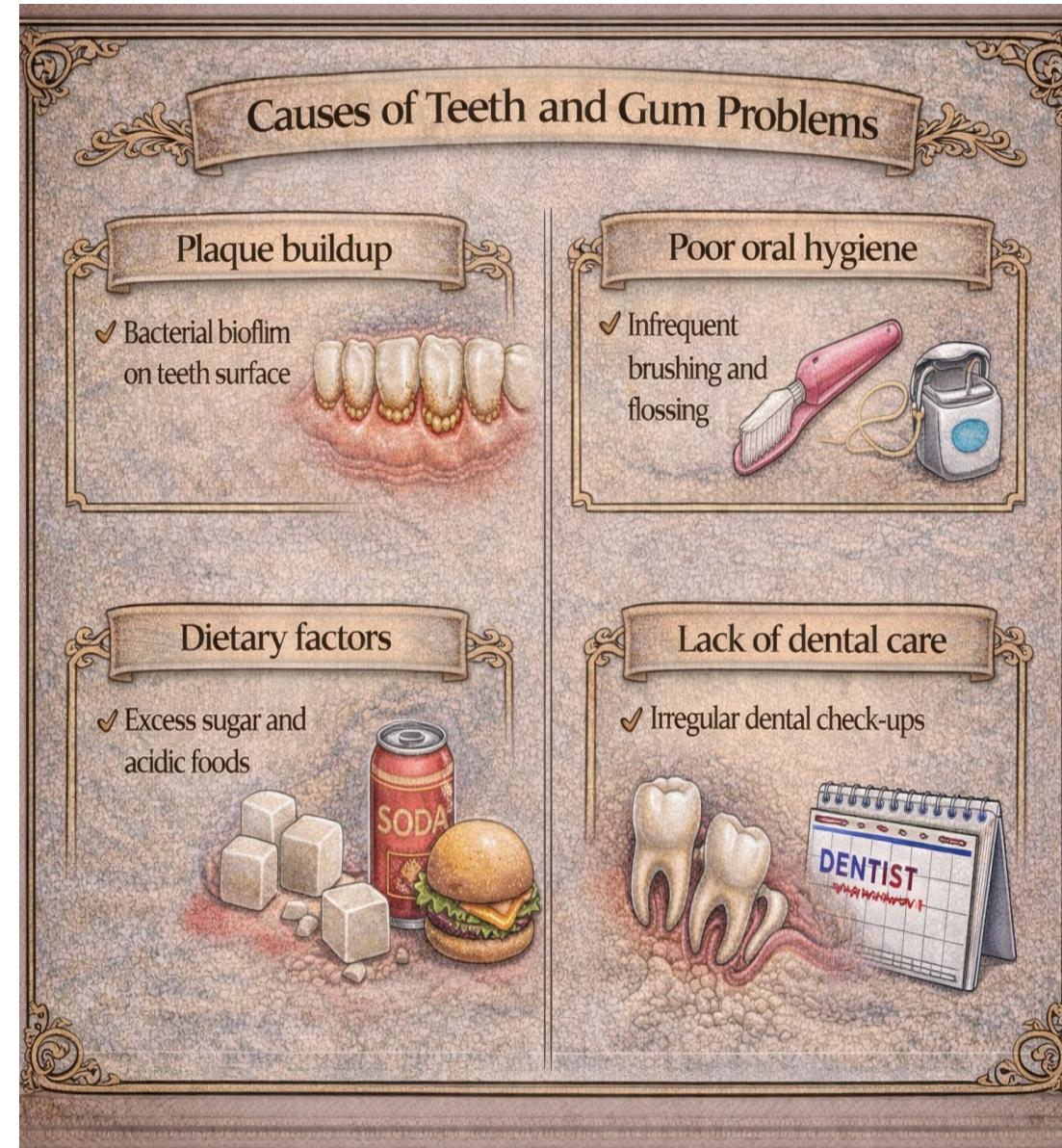


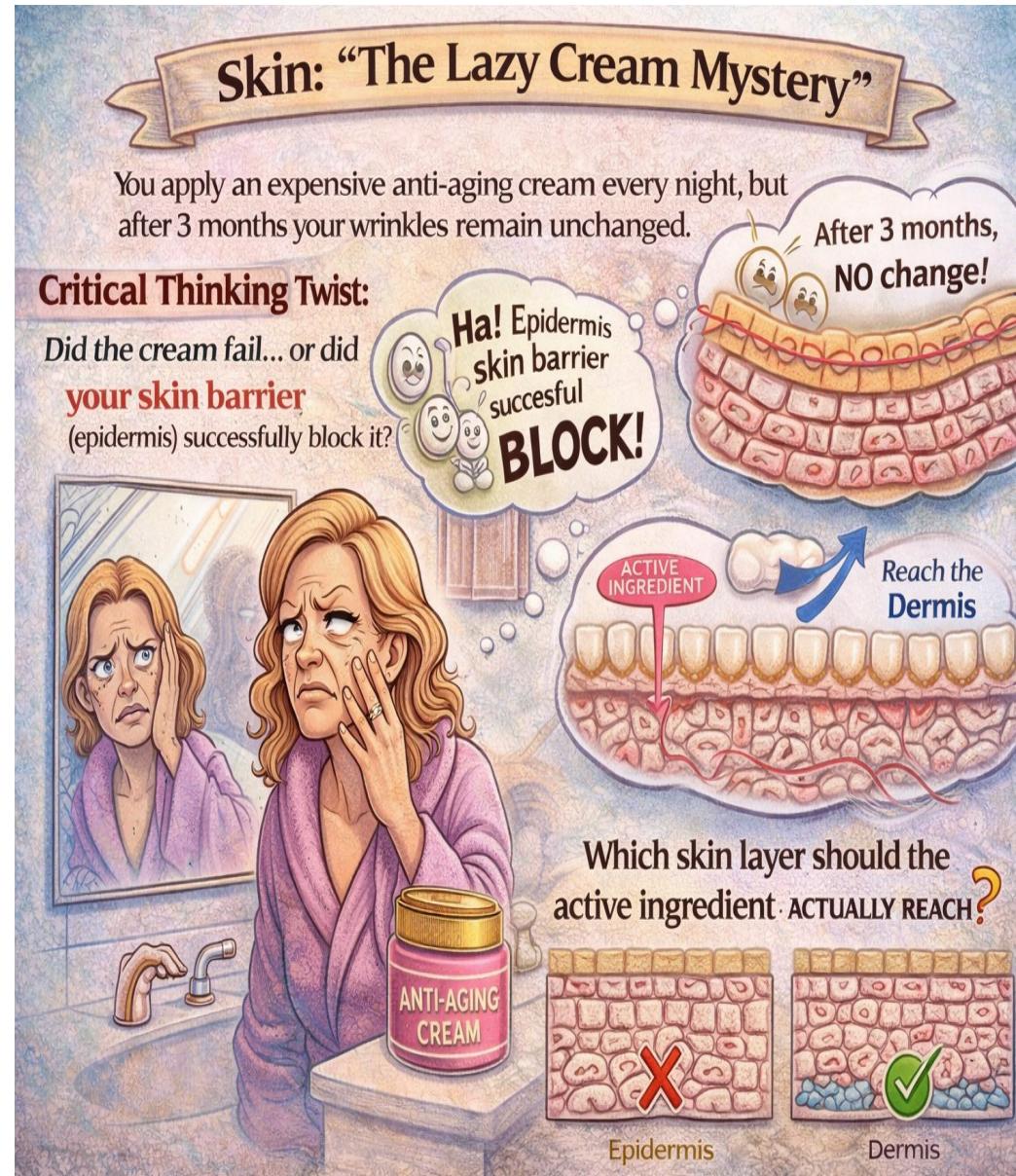
















REFERENCES :

- 1) Harry's Cosmeticology, Wilkinson, Moore, Seventh Edition, George Godwin.
- 2) Cosmetics- Formulations, Manufacturing and Quality Control, P.P. Sharma, 4th Edition, Vandana Publications Pvt. Ltd., Delhi.
- 3) Text book of cosmeticology by Sanju Nanda & Roop K. Khar, Tata Publishers.

