BP 809ET

2025

B.Pharm. 8th Semester (Regular) End-Term Examination

COSMETIC SCIENCE

Full Marks - 75

(a)

(b)

(c)

(d)

Cosmetic formulations

Toxicology testing

Pricing regulations

Clinical trials

Time - Three hours

The figures in the margin indicate full marks for the questions.

1.	Mul	tiple	choice questions	(MCQ)	(Answer ALL questions): 1×20		
	(i)	Following country has a specific category of products that are in between cosmetics and Pharmaceuticals called quasi drugs.					
		(a)	India	(b)	Japan		
		(c)	Russia	(d)	Turkey		
	(ii)	Which of the following is an example of an emollient used in cosmetics?					
		(a)	Water	(b)	Alcohol		
		(c)	Glycerine	(d)	Alcohol Propylene glycol am is: 4-6 9-10		
	(iii)	The ideal pH for a skin cream is:					
		(a)	2–3	(b)	4-6 Bing hands and		
		(c)	7-8	(d)	9-10 GIT HOWE		
	(iv)	Which of the following tests is mandatory for eye cosmetics?					
		(a)	Irritation test				
		(b)	SPF test				
		(c)	Color stability to	est			
		(d)	Texture evaluat	ion			
	(v)	The	BIS (Bureau of In	ndian	Standards) provides guidelines for		

	(vi)	(vi) What is the primary function of preservatives in cosmetic formulati								
		(a)	To improve texts	ure						
		(b)	To protect against microbial contamination							
		(c)	To enhance fragrance							
		(d)	To increase color stability							
	(vii)	Sufactants used in shampoos are mainly								
		(a)	Cationic	(b)	Anionic					
		(c)	Non-ionic	(d)	All of the above					
	(viii)	Whi	ch of the followin	nts is most commonly used as a hair conditioner?						
		(a)	Sodium lauryl sulfate							
		(b)	Dimethicone							
		(c)	Glycerin							
		(d)	Tocopherol							
(ix) A hydro-alcoholic solution in which flavours, essential are combined to provide long term breath deodorization										
		(a)	Deodorant	(b)	Toothpaste					
		(c)	Mouthwash	(d)	None of the above					
	(x)	Vanishing cream is a — type emulsion.								
		(a)	o/w	(b)	w/o					
		(c)	o/w/o	(d)	None of the above					
	(xi)	Whi	Thich of the following is abrasive used in toothpaste?							
		(a)	Which of the following is abrasive used in toothpaste? a) Sodium lauryl sulfate b) Calcium carbonate c) Propylene glycol Bina Chowdhury Chowdhury Ghy-17 Bina Chowdhury Azara Ginjananda Chowdhury Azara Bina Chowdhury Chowdhury Ghy-17 Bina Chowdhury Chowdhury Chowdhury Ghy-17 Bina Chowdhury Chowdhury Chowdhury Chowdhury Chowdhury Ghy-17 Bina Chowdhury Cho							
		(b)	Calcium carbona	ite	Bina Chowdhury Central University Girijananda Chowdhury Azara, Ghy-17					
		(c)	Propylene glycol		Bing Panda Shore					
		(d)	Methylparaben		Ham					
(xii) Emollients — water content of stratum corne					ater content of stratum corneum.					
		(a)	Increases	(b)	Decreases					
		(c)	Stop	(d)	None of the above					
(xiii) Antiperspirants contain which compound to reduce sweating?										
		(a)	Aluminum salts	(b)	Glycerin					
		(c)	Talc	(d)	Zinc oxide					

(xiv)		is a commonly used sunscreen agent?					
	(a)	Titanium dioxide					
	(b)	Glycerin					
	(c)	Parabens					
	(d)	Butylated hydroxy Toluene (BHT)					
(xv)	Measurement of the transepidermal water loss is expressed in						
	(a)	Gram per sq. meter					
	(b)	Milligram					
	(c)	Milligram per meter					
	(d)	Gram per centimeter					
(xvi)	A rheological test for cosmetics helps determine						
	(a)	Viscosity and flow behavior					
	(b)	Fragrance intensity					
	(c)	pH stability					
	(d)	Sun protection factor					
(xvii)	Whi	ch of the following is commonly used as an antioxidant in cosmetics?					
	(a)	Sodium chloride Ascorbic acid Citric acid Bina Chowdhury Chowdh					
	(b)	Sodium chloride Ascorbic acid Citric acid Hydroquinone Citric acid Citric acid					
	(c)	Citric acid Bina Chow Azara					
	(d)	Hydroquinone Girlla Hatkhowa					
(xviii) Which type of surfactant is commonly used in shampoo formulations?							
	(a)	Anionic surfactant					
	(b)	Cationic surfactant					
	(c)	Non-ionic surfactant					
	(d)	Amphoteric surfactant					
(xix)	Whi	ch ingredient is used as a thickening agent in face creams?					
	(a)	Xantham gum (b) Glycerine					
	(c)	Isopropanol (d) Ethanol					
(xx)	Which of the following is not a function of cosmetics?						
	(a)	Beautification					
	(b)	Cleansing					
	(c)	Treating diseases					
	(b)	Enhancing appearance					

- Explain the role of surfactants in shampoos. Discuss different types with examples.
- (b) Define cosmetics as per Indian regulations. Enlist the various ingredients used in sunscreen formulations.
- Write in details about the principle and formulation of Para-phylene (c) diamine based hair dyes.
- (d) What are preservatives in cosmetics? Give examples and explain their role in formulations.
- Write the principle involved in TEWL measurement. Write applications of Corneometer.
- What is SPF sunscreen? Enlist the causes of hair fall and dandruff. (f)
- (g) Explain the symptoms and treatment of dry skin.
- (h) Describe the BIS Specification and analytical methods for Skin cream.
- List out various excipients used in cosmetics and cosmeceuticals. Write in (i) brief about rheology modifiers.
- Explain the formulation considerations & mechanism of antiperspirant and (j) deodorants.
- Explain the physiological functions of skin and hair and their relevance to (k) Bina Chawdhury Centra cosmetic formulations.

3. Long Answers (Answer any TWO):

 2×10

- Write a detailed note on principles of formulation and building blocks of oral care products. Mention the role of neem and clove in oral care.
- Define and classify surfactants with example. Write applications of (b) Bina Chowdhury Central Libr Girijauauga Chomphan Chartz Ring Cuomount Seura Tunistain surfactant. Write in details about prickly heat. 3 + 4 + 3Hatkyowabata Azara Ghi-13
- Write short note on: (Any TWO):

5 + 5

- Hair growth cycle
- (ii) Antidandruff shampoo
- (iii) Mouthwash