Name: IPES **Enrolment No:** UPES End Semester Examination, May 2024 **Course: Cosmetic Science** Semester : VIII **Program: B.Pharm** Duration :03 Hours **Course Code: BP 809ET** Max. Marks : 75 Instructions: Read the questions carefully and attempt as per the marks assigned. SECTION A (20Qx1M=20 Marks) S. No. Attempt all questions Marks COs **CO1** 01 Enlist any two examples of keratolytic agent used in skin cosmeceuticals. 1 Acidic dyes are used for semi-permanent hair coloring. **Q** 2 **True/False** 1 **CO1** 03 The tensile strength of healthy hair should be 150-270 Pa. **True/False** 1 **CO1** The route involves a direct path through the cell membrane of multiple **Q**4 layers of the epidermis. 1 **CO1** a) Intercellular b) Intracellular c) Appendageal d) All of the above Enlist any two examples of abrasive agents used in toothpaste. Q 5 1 **CO2** 06 Chelating agents are also known as **CO2** a) True antioxidants b) Reducing agent 1 c) Antioxidant synergists d) Antioxidant antagonists Q 7 Enlist various phases of hair growth cycle. 1 **CO2** Vanishing cream is an example of w/o emulsion. True/False Q 8 1 **CO2** 09 Lanolin is used as agent in shampoo formulation. a) Conditioning b) Foaming 1 **CO2** c) Sequestering d) Opacifying Cocamidopropyl betaine is an example of O 10 **CO3** a) Surfactant 1 b) Preservative c) Rheology modifiers d) Emollient Recommended concentration of parabens to be used as preservatives in **Q 11** 1 **CO3** pharmaceutical/cosmeceutical formulations is 1-2%. True/False 012 **CO3** The stress point at which the material begins to flow is known as 1 Q 13 Write the name of any **two** natural moisturizing factors (NMF) present in stratum corneum. **CO3** 1 **O** 14 The concentration of aluminium chlorohydrate for showing antimicrobial activity should 1 **CO4** vary from to Enlist any two devices used for skin color measurement. Q 15 1 **CO4** Q 16 True/False **CO4** Cosmetic products should be comedogenic. 1 Q 17 As per BIS, what should be the minimum foam height for 2% shampoo solution? 1 **CO5** Q 18 Write formula for determination of persistent pigment darkening 1 **CO5** Q 19 The maximum total available fluoride ions in fluorinated toothpaste should be 1 **CO5** ppm. Q 20 As per BIS, the concentration of lead in cosmetic preparations should not exceed 1 **CO5**ppm.

SECTION B (20 Marks)			
(2Qx10M=20 Marks)			
Attempt 2 Question out of 3			
Q 1	a. Elaborate the mechanism of action of organic and inorganic sunscreen. (5 marks)b. Discuss the measurement of effectiveness of sunscreen. (5 marks)	10	CO3
Q 2	a. Define excipients with suitable examples. (2 marks)b. Explain surfactants and preservatives used in cosmetic formulation focusing on their classification, mechanism of action and examples. (8 marks)	10	CO2
Q 3	Design the formula for a cold cream and vanishing cream, justifying the role of various ingredients used in the formulation.	10	CO3
SECTION-C (35 Marks)			
(7Qx5M=35 Marks)			
Attempt 7 Question out of 9			
Q 1	Explain functions and structure of skin with a well-labelled diagram.	2+3	CO1
Q 2	Discuss the evolution of cosmeceuticals from cosmetics in brief.	5	CO2
Q 3	Describe the types of hair dyes.	5	CO2
Q 4	Describe briefly about humectants with examples.	5	CO3
Q 5	State one difference between antiperspirant and deodorant. Explain the mechanism of action of antiperspirants.	1+4	CO3
Q 6	Discuss the role of neem and clove in oral care formulations.	5	CO4
Q 7	Explain any two diseases related to oral cavity.	5	CO4
Q 8	Illustrate the consequences and measurement of transepidermal water loss.	5	CO5
Q 9	Discuss various analytical specifications for skin creams as per BIS.	5	CO5