

Roll No. _____

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DEPARTMENT OF CHEMISTRY
SCHOOL OF CHEMICAL AND LIFE SCIENCES
B.SC-HONS. WITH RESEARCH. CHEMISTRY
SEMESTER I

End term Examination 2023

Paper Name: Chemistry of Cosmetics & Perfumes

Paper Code: BCH-MIC-101

Time: 2.5 hrs

Max. Marks: 60

Note: This paper has 3 sections A, B, and C, Attempt all the three sections

Section A: Answer all the questions; **Section B:** Answer any 2 out of 4; **Section C:** Answer all the questions, each question has an internal choice

Abbreviations Used CO- Course Outcome, CLO- Course Learning Outcome, PO- Program Outcome, PLO- Program learning Outcome, BTL- Bloom Taxonomy Level: BT level 1- Remember; BT level 2- Understand; BT level 3- Apply; BT level 4- Analyze; BT level 5- Evaluate, BT level 6- Create

Q.No		BTL	CLO	PLO
<u>SECTION A</u>				
Attempt <u>all</u> questions		(10*1.5= 15 Marks)		
A 1.	What are the ideal characteristics of a good hair remover cream?	2	3	2
A 2.	“Stearic acid is the hero ingredient of vanishing creams,” Justify this statement	4	2	3
A 3.	What are face powders? How are they classified?	3	2	2
A 4.	“Humectants play an important role in various cosmetic preparations” Explain with examples.	6	6	3
A 5.	Why do we need Suntan preparations?	5	2	2
A 6.	Briefly discuss the preparation method of Shaving creams.	2	3	3
A 7.	How are Antiperspirants different from Deodorants?	4	1	2
A 8.	What are the uses of Muscone in cosmetic preparations?	3	4	2
A 9.	Write the source, structure and use of 2-Phenyl ethyl alcohol.	1	2	4
A 10.	Differentiate between Cold creams and Vanishing creams.	3	2	3

SECTION B

Attempt **any two** out of four

		(2*10=20 Marks)		
B 1.	Discuss the chemistry involved in Hair Dyes and explain their mode of action.	2,4	4	4
B 2.	What are Nail Enamels? How are they synthesized? Mention the roles of the basic ingredients used in Nail enamels.	3	2	3
B 3.	What are the ingredients used in the formulation of a hair shampoo and their roles in the shampoo formulation. Give a detailed account of different types of surfactants used in shampoos along with suitable examples.	5	3	3
B 4.	Identify the cosmetic product from the ingredients given below: Borax, Beeswax, Glycerin, Olive oil, perfume Briefly discuss the role of each of these in the formulation of the given cosmetic product. Also discuss the mode of action of this cosmetic product.	1,4	2	2

SECTION C

(5*5=25 Marks)

Attempt <i>all</i> questions, each question has an <i>Internal choice</i>			
C 1.	Discuss the formulation of a Talcum Powder. Explain the significance of zinc stearate in this formulation.	4	1 5
OR			
	What are Artificial Flavours? Comment on their uses and applications in our day-to-day life.	2	2 2
C 2.	What are the core ingredients in a Lipstick preparation? Discuss the formulation of lipsticks.	5	2 6
OR			
	What are cosmetics? How are they different from drugs? How do you classify cosmetics based on their physical forms?	4	6 3
C 3.	Explain the role of covering materials, slip materials and absorbent materials in face powder preparation with suitable examples.	5	2 3
OR			
	What are Essential oils? Give any one method of their extraction from natural sources.	3	1 2
C 4.	"Holding agents and propellants are the key ingredients in Hair sprays". Comment.	6	2 3
OR			
	Comment on the toxic effects of various cosmetic preparations and perfumery agents. What steps can be taken to minimize these toxic effects?	5	5 3
C 5.	Discuss the properties of an ideal Suntan lotion. What are the most Commonly used raw materials in suntan lotions?	1	2 2
OR			
	Mention three uses each of Sandalwood oil and Eucalyptus oil.	2	4 2
