

PAST PAPERS

Faculty	Department / Section/Division
Not Applicable	Learning Resource Centre

Past Papers

Faculty of health science

Bachelor of Science honours in cosmetic science

Year 2 - Semester II

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FACULTY OF HEALTH SCIENCES B.SC. (HONS) IN COSMETIC SCIENCE

BCS 2233 – COSMACEUTICS

BATCH - 05 - 2ND YEAR 2ND SEMESTER - END SEMESTER SEQ EXAMINATED

Date : 3rd May 2023

Time: 9.00 am to 12.00 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of SIX questions.
- Answer ALL questions.
- You should write legibly in black or blue ink.

MATERIALS REQURIED

You may use a scientific calculator. This must not be programmable and may be inspected during the examination. Programmable calculators, PDAs and mobile phones are not permitted in the examinations.

01.	(100 marks)
1.1. State 03 types of information sources. Briefly describe the importance of utilizing information sources in cosmetic industry.	(20 marks) (20 marks)
1.2.Draw the information ladder and briefly describe how it can be used in obtaining information.	(25 montes)
1.3. Define term "cosmeceutical product".	(25 marks) (10 marks)
Classify the cosmetic products according to their physical status along with 02 example.	(25marks)
02.	(100 marks)
2.1. List 03 properties of body powders used in cosmetic industry.	(15 marks)
2.2. State 05 methods of measuring particle size analysis in powder formulation.	(20 marks)
2.3. State 04 advantages of powders as a dosage form in cosmetic industry.	(20 marks)
2.4. Briefly discuss on geometric dilution method in powder formulation.2.5. Discuss the methods of compact powder preparation in cosmeceutical industry.	(25 marks) (25 marks)
	(========)
03.	(100 marks)
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3.1. State 03 important effects from the solubility of a cosmetic active molecule in	
cosmetic formulations.	(15 marks)
3.2. State 05 properties of an ideal chelating agent used in cosmetic formulations.	(20 marks)
3.3. Most of cosmetic active molecules are either weak acid or weak bases.	(10 montes)
3.3.1. Write the ionization constant for weakly acidic active cosmetic molecule.3.3.2. Briefly discuss the importance of ionization of active cosmetic molecules in	(10 marks)
product formulation.	(20 marks)
3.4. Presence of Oxygen (O) and Nitrogen (N) containing functional groups usually	(=======)
enhances water solubility. Predict the water solubility of following molecules using	
the details in the given table.	(40 marks)

(15 marks)

(20 marks)

(40 marks)

	ОН
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HO	HO,,,OH
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0	

Functional group	Monofunctional Molecule	Polyfunctional Molecule
Alcohol	5 to 6 carbons	3 to 4 carbons
Phenol	6 to 7 carbons	3 to 4 carbons
Ether	4 to 5 carbons	2 carbons
Aldehyde	4 to 5 carbons	2 carbons
Ketone	5 to 6 carbons	2 carbons
Amine	6 to 7 carbons	3 carbons
Carboxylic acid	5 to 6 carbons	3 carbons
Ester	6 carbons	3 carbons
Amide	6 carbons	2 to 3 carbons
Urea, Carbonate, carbamate	2-3	2 carbons
Amine hydrochloride		20-30 carbons
Sodium Phenolate		10-20 carbons
Sodium/potassium carboxylate		20-30 carbons

6.3. List 03 excipients used in cosmeceutical shampoo along with 01 example.

6.4. Write **04** purposes of granulation process in tablet manufacturing in cosmetic industry.

6.5. Discuss the wet granulation process in compressed tablet formulation in cosmetic industry.

04.	(100 marks)
4.1. Define ointments relate to cosmetic formulation.	(10 marks)
4.2. Differentiate the composition of yellow ointment and white ointments according to the	
United State Pharmacopoeia (USP).	(15 marks)
4.3. Write 05 desirable properties of ointment base.	(20 marks)
44. Write a descriptive account on preparation of ointments by incorporation method.	(40 marks)
05.	(100 marks)
5.1. List 05 raw materials used in the manufacturing of empty hard gelatin capsules.	(15 marks)
5.2. Outline the basic steps in manufacturing of empty hard gelatin capsules.	(25 marks)
5.2. State 04 requirements of a good toothpaste formulation.	(20 marks)
5.4. Discuss the benefits of using face scrub.	(40 marks)
06.	(100 marks)
6.1. List 02 types of cleansing creams.	(10 marks)
6.2. Write the main function of the following ingredients used in cleansing creams.	(15 marks)
6.2.1. Paraffin wax	(15 marks)
6.2.2. Lanolin	
6.2.3. Zinc oxide	