

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 4 - Semester I

Document Control & Approving Authority		Senior Director – Quality Management & Administration		
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1st Issue De



Faculty of Health Sciences

B. Sc. (Hons) in Cosmetic Science

BCS 4113

Beauty Culture- II 4th Year 1st Semester

End Semester SEQ Examination

1st Batch



Date

: 28th August 2023

Time

: 9.00 a.m. - 12.00 a.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

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

Question 1	(100 marks)
1.1 List five contraindication states for waxing.	(10 marks)
1.2 Write three advantages of waxing.	(15 marks)
1.3 Write three disadvantages of waxing.	(15 marks)
1.4 Write three advantages of threading service.	(15 marks)
1.5 Write three disadvantages of threading service.	(15 marks)
1.6 Describe alternative methods of hair removal.	(30 marks)
Question 2	(100 marks)
2.1 List three functions of human nails.	(15 marks)
2.2 Describe the nail structure of a human.	(30 marks)
2.3 List five factors affecting the condition of the nails.	(15 marks)
2.4 What is a hook nail?	(20 marks)
2.5 What is a ski jump nail?	(20 marks)
Question 3	(100 marks)
3.1 Describe the treatment objectives of manicure and pedicure services.	(40 marks)
3.2 Write short notes on following massing techniques in manicure and pedicu	ire service.
3.2.1 Effleurage	(20 marks)
3.2.2 Petrissage	(20 marks)
3.3.3. Tapotement	(20 marks)

Question 4	(100 marks)
4.1 Describe the method help to determine correct length and arch of eyebrows.	(40 marks)
4.2 What are the importance of fixing false eye lashes?	(20 marks)
4.3 Describe the procedure of fixing and removing false eye lashes.	(40 marks)
Question 5	(100 marks)
5.1 Describe steps in solod nail colour application.	(40 marks)
5.2 Describe the advices you can give to your client regarding the nailcare.	(40 marks)
5.3 Write a short note on French manicure.	(20 marks)
Question 6	(100 marks)
6.1 List five products that are used for nail enhancement.	(20 marks)
6.2 List five tools and equipment that are used for nail enhancement.	(20 marks)
6.3 Describe contra-actions caused by incorrect applications of acrylic nail.	(40 marks)
6.4 List four common techniques used for nail art.	(20 marks)



Faculty of Health Sciences B.Sc. (Hons) in Cosmetic Science BCS 4143- Cosmetic Technology IV BCS 1st Batch 4th Year 1st semester End Semester Examination - SEQ



Date : 25th August 2023 Time : 9.00 am to 12.00 pm

INSTRUCTIONS TO CANDIDATES

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

MATERIALS REQURIED

02.

 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.Explain the importance of sunscreen formulations in protecting the skin from harmful UV radiation.
 - (20 marks)
- 1.2. Give two examples for each of the two primary types of sunscreen agents used in formulations: physical (inorganic) and chemical (organic) sunscreen. (10 marks)
- 1.3. Briefly describe the mechanism of action of physical and chemical sunscreen.

(20 marks)

1.4. Give two key considerations when formulating sunscreen formulations.

- (10 marks)
- 1.5. Give four common challenges /issues that can arise during the formulation process of sunscreens.

(20 marks)

- 1.6. How do you determine the SPF value of a sunscreen, and what factors can affect the accuracy and reproducibility of the measurement? (20 marks)
- 2.1 You have provided a formulation of foot cream.

Glycerin (2%)

(100 marks)

Urea (10%)

Shea Butter (5%)

Peppermint Essential Oil (0.5%)

Coconut Oil (3%)

Phenoxyethanol (0.5%)

2.1.1 Identify the active ingredient, emollient, humectant, exfoliating agent, fragrance, and preservative from the above formulation. (30 marks)

Water: Balance to 100%

2.1.2 Propose a type of ingredient and example that can be added to increase the viscosity of the foot cream formulation. (10 marks)

 2.1.3 This formulation is revised to introduce for athlete's foot. Which type of ingredient should additionally to the formulation? Give an example for the type of the ingredient. 2.1.4 Having the same consistency of the cream, which ingredients should be replaced with new to transform this formulation into a corn and callus preparation? 2.2 Discuss the role of cleansing and exfoliation in foot preparation and their benefits. 	(20 marks)	
03.	(100 marks)	
3.1 What are some common ingredients found in cuticle removers, and what role do they play in th		
formulation?	(20 marks)	
3.2 How does a base coat differ from a topcoat in terms of formulation and application?3.3 What are some potential safety risks associated with using nail polish and how can they be min	(20 marks) imized? (30 marks)	
3.4 What are some common ingredients found in nail strengtheners, and how do they work to imprehealth and appearance of the nails?		
04.	(100 marks)	
4.1 State two cosmetic products that can be used for hair dressing.	(10 marks)	
4.2 State five technical qualities of hair styling products.	(10 marks)	
4.3 State two major forms of hair sprays and briefly explain the two types.	(40 marks)	
4.4 Briefly describe the difference between the hair tonics and the hair conditioner.4.5 State two advantages of using hair thickener and mentioned two types of cosmetic products that	(20 marks)	
as hair thickeners.	(20 marks)	
05.	(100 marks)	
 5.1 Classify the hair -coloring agents according to their nature and solubility. 5.2 State the differences between temporary hair dye and the semi- permanent hair dyes. 5.3 Hair tonic is one kind of hair repairing tonic and re-texturing the hair and it makes your hair sea and bouncy. Using too much hair tonic can have drawbacks. Briefly explain this statement. 5.4 Given ingredients are for a general formulation for a hair tonic. State the function for each ingredience. 	(25 marks)	
5.4.1 Sea Hibiscus leaf extract5.4.2 Propylene glycol		
 5.4.3 Sodium metabisulfite 5.4.4 Methyl paraben 5.5 Hair gels are also very popular hair styling products. However, spray gels easy to evenly apply provide a weaker hold and tube and jar gels provide a stronger hold. Briefly explain this stater viscosity. 	to the hair and ment based on (15 marks)	
06.	(100 marks)	
6.1 Briefly compare the use of shampoo with soap.6.2 State the categories of surfactants and briefly describe the use of surfactants in a shampoo form	(30 marks)	
6.3 State the difference between clear liquid shampoo and aerosol shampoo.	(20 marks)	
6.4 State three advantages of hair waving process.6.5 State the principle of permanent hair waving process.	(15 marks) (20 marks)	



Faculty of Health Sciences
B.Sc. (Hons) in Cosmetic Science,
BCS 4153 – Perfumes and colors
BCS 1st Batch

4th Year 1st semester End Semester Examination - SEQ

Ce NOT NOT AND POPER AUTHORIZATION AUTHORIZATION Recourse Centre

Date : 21st August 2023 Time : 9.00 am to 12.00 pm

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. List 04 biological activities of essential oils.	(10 marks)
1.2. Write 05 benefits of essential oils and flower oils used in cosmetics.	(15 marks)
1.3. Differentiate the characteristic features of essential oils and flower oils.	(15 marks)
1.4. "Essential oils and flower oils are readily used in cosmetic industry".	
1.4.1. Explain the above statement along with examples.	(20 marks)
1.4.2. State 02 ways of using essential and flower oils.	(10 marks)
1.4.3. Discuss 03 different types of essential oils used in cosmetic industry.	
The answer should be included with source of essential oil, properties	, and uses of
essential and flower oils.	(30 marks)

02.	(100 marks)
2.1. What is the main type of alcohol used in perfume and colors?	(10 marks)
2.2. List 05 properties of alcohol used in cosmetic industry.	(15 marks)
2.3. Briefly describe 03 purposes of alcohol used in cosmetic industry.	(15 marks)
2.4. Describe the biological pathway of ethanol production	(30 marks)
2.5. Describe 02 purification techniques used in cosmetic industry.	(30 marks)

03.	(100 marks)
3.1. List 05 selection criteria of synthesis of odorous materials used in cosmetic for	
3.2. State 03 synthetic processes of fragrance materials in cosmetic industry.3.3. Define aldol condensation.3.4. Write the reaction of synthesis of cinnamic acid and what is the name of the reaction.	
involved in the synthesis process. 3.5. State 02 applications of Shiff bases used in cosmetic industry. 3.6. Write the mechanism of Schiff base synthesis.	(25 marks) (10 marks) (25 marks)
04.	(100 marks)
4.1. List 05 synthetic odorous materials that can be synthesized in the cosmeceuti	cal laboratory. (10 marks)
4.2. Draw the chemical structure of following France materials.4.2.1. Rose oxide	(20 marks)
4.2.2. Musk ketone 4.2.3. Isopentyle acetate	
4.2.4. Linalool4.3. What are the 04 categories of synthetic musk fragrance.	(20 marks)
4.4. List 04 precursors that can e used for the synthesis of rose oxide fragrance.4.5. Describe the procedure of synthesis of banana fragrance used in cosmetic procedure.	(20 marks)
4.3. Describe the procedure of synthesis of banana fragrance used in cosmette pro	(30 marks)
05.	(100 marks)
5.1. State 04 characteristic features of fixatives used in skin care formulations.	(20 marks)
5.2. Briefly describe the function of fixatives.	(20 marks)
5.3. Write the main and sub classification of below mentioned fixatives. 5.3.1. Civet	(20 marks)
5.3.2. Benzyl benzoate	
5.3.3. Storax 5.3.4. Dipropylene glycol	
5.4. Write short notes on the following fixatives.	
5.4.1. Ambergris and ambroxide.	(20 marks)
5.4.2. Gum resin	(20 marks)
06.	(100 marks)
6.1. Write the biological sources of following resin types.6.1.1. Myrrh	(10 marks)
6.1.2. Asafoetida6.2. List 02 chemical constituents in Cannabis.	(10 marks)
6.2. List 02 chemical constituents in Cannabis. 6.3. Write 05 characteristic features of Colophony which are used in cosmetic inc	,
fragrance material.	(20 marks)
6.4. Briefly describe why the biotechnological synthesis of flavors are favored ov	ver chemical
synthesis.	(25 marks)
6.5 Describe the challenges associated with biotechnological synthesis of flavors	s. (35 marks)