

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN INDUSTRIAL CHEMISTRY**

CHIN 325: COSMETICS, TOILETRY AND PERFUMES**STREAMS: BSC. INDUSTRIAL CHEMISTRY****TIME: 2 HOURS****DAY/DATE: WEDNESDAY 07/07/2021****8.30 A.M. – 10.30 A.M.****INSTRUCTIONS:****Answer question one and any other two questions****QUESTION ONE (30 MARKS)**

- | | |
|--|-----------|
| a) Differentiate between cosmetics and drugs | (3 marks) |
| b) Give two products that have both drug and cosmetic functions | (1 mark) |
| c) Briefly discuss the knowledge and background education for a scientist in the cosmetic industry | (4 marks) |
| d) i) Define a cosmetic ingredient | (1 mark) |
| ii) Give four functions of cosmetic ingredients | (2 marks) |
| e) Define the following cosmetic terms | (5 marks) |
| i) Dye | |
| ii) Pigment | |
| iii) Lake | |
| iv) Humectants | |
| v) Emollients | |
| f) Explain the term surfactant and their functions in cosmetics | (3 marks) |
| g) Explain the term dosage form as used in cosmetics and give three classifications of dosage forms. | (2 marks) |

- h) Give three principal constituents in the formulation of the following:
- i) Shampoos (1.5 marks)
 - ii) Detergents (1.5 marks)
 - iii) Hair Sprays (1.5 marks)
 - iv) Bar soaps (1.5 marks)
 - v) Hand and body lotions (1.5 marks)
 - vi) Hair gels (1.5 marks)

QUESTION TWO (20 MARKS)

- a) Briefly discuss the following terms as used in cosmetic science:
- i) Cosmeceuticals (2 marks)
 - ii) Nutraceuticals (2 marks)
 - iii) Organic products (2 marks)
 - iv) Hypoallergenic products (2 marks)
- b) Discuss the following terms as used in cosmetics:
- i) Abrasives (2 marks)
 - ii) Antioxidants (2 marks)
 - iii) Color additives (2 marks)
 - iv) Chelating agents (2 marks)
- c) Differentiate between the following terms as used in cosmetic:
- i) Capsule and Gel (2 marks)
 - ii) Loose powder and pressed powders (2 marks)

QUESTION THREE (20 MARKS)

- a) Discuss three classification of cosmetics and over the counter Drug-cosmetic products (6 marks)
- b) Discuss the following dosage forms for cosmetics
- i) Solution (3 marks)
 - ii) Emulsion (3 marks)

- iii) Ointment (3 marks)
- c) Briefly discuss moisturizers (3 marks)
- d) Give two main categories of lip products and give two customer expectations for lip products (2 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the first three stages of lipstick manufacture (6 marks)
 - b) i) Give two customer expectations for nail polish products (2 marks)
ii) Give four ingredients in a standard nail polish formulation (2 marks)
 - c) i) Define a deodorant (1 mark)
ii) Give three approaches to odor control (3 marks)
 - d) i) Define a fragrance (2 marks)
ii) Give two roles of perfumes (2 marks)
 - e) Using a suitable example give the two distinct group of perfumery raw materials (2 marks)
-