



FACULTY OF HEALTH SCIENCES

BSC. (HONS) COSMETIC SCIENCES

BCS 3253 – COSMECEUTICAL TECHNOLOGY III

MID SEMESTER EXAMINATION SEQ -3RD YEAR 2ND SEMESTER- 5TH BATCH

Date: 5th March 2024

Time: 09.00 a.m. – 10.00 a.m. (One Hour)

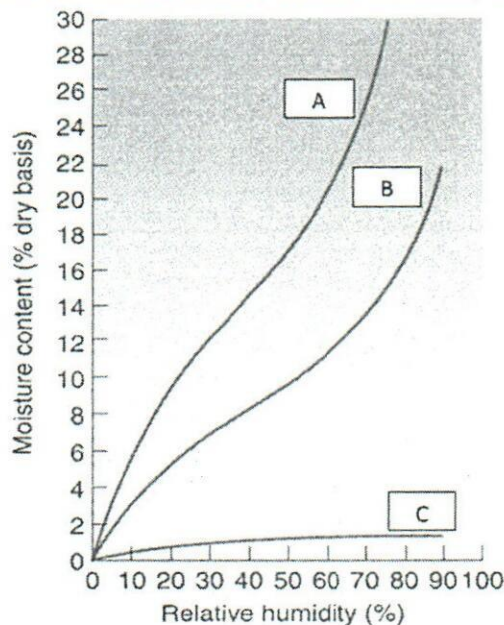
INSTRUCTIONS TO CANDIDATES

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

Question 01

(100 marks)

- 1.1 State **five (05)** factors that affect the drying. (20 marks)
- 1.2 Describe **four (04)** applications of drying in the pharmaceutical industry. (30 marks)
- 1.3 Typical equilibrium moisture content of kaolin, fibrous material, and starch are shown in the below graph.



- 1.3.1 Identify **A, B,** and **C** materials. (30 marks)
- 1.3.2 Briefly describe how the equilibrium moisture content changes each material from 20% to 80% relative humidity at 20°C. (20 marks)

Question 02

(100 marks)

- 2.1 Name **two (02)** size reduction equipment used in industry. (10 marks)
- 2.2 Briefly describe the influence of material '**stickiness**' on size reduction. (35 marks)
- 2.3 State **three (03)** different methods of heat transfer. (15 marks)
- 2.4 Discuss the construction and uses of heat-jacketed vessels in manufacturing. (40 marks)