



UNIVERSITY EXAMINATIONS

SECOND SEMESTER 2023/2024 ACADEMIC YEAR

**THIRD YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF BIOMEDICAL SCIENCE AND
TECHNOLOGY (BMED)**

BMED 324: DRUGS AND FOOD STANDARDIZATION

STREAM: R

TIME: 2 HRS

DAY: FRIDAY [8.30 – 10.30 A.M]

DATE: 12/04/2024

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS TO CANDIDATES: ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO QUESTION IN SECTION B

LU observes ZERO tolerance to examination cheating

SECTION A: ANSWAER ALL QUESTIONS (40 MARKS)

QUESTION ONE

Define the following terminologies concepts.

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|--------------------------|-----------|
| i. Bioequivalence | (2 Marks) |
| ii. Pharmacopoeia | (2 Marks) |
| iii. Drug Formulary | (2 Marks) |
| iv. Pharmaceutical Codex | (2 Marks) |

QUESTION TWO

Highlights the features of pharmaceutical codex. (8 Marks)

QUESTION THREE

Write short notes on the following techniques

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|---|-----------|
| i. High performance Liquid chromatography (HPLC). | (4 Marks) |
| ii. Nuclear Magnetic resonance spectroscopy (NMRS). | (4 Marks) |

QUESTION FOUR

Describe features of convention on Psychotropic Substances (1971) (8 Marks)

QUESTION FIVE

Explain the roles of biomedical scientist in standardization.

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| i. Food | (4 Marks) |
| ii. Drug | (4 Marks) |



SECTION B: ANSWAER TWO QUESTIONS (30 MARKS)

QUESTION SIX

Describe ethical and scientific dilemmas raised by uncontrolled use
Of prescription drugs.

(15 Marks)

QUESTION SEVEN

Explain roles of Kenya Bureau of Standards (KBS) in inspecting of imported food,
drugs and chemicals.

(15 Marks)

QUESTION EIGHT

Expound on 15 challenges of pharmacy and poisons board Act of Kenya in ensuring
standardization of pharmaceutical product.

(15 Marks)

