



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2023/2024 ACADEMIC YEAR
FIRST YEAR FIRST SEMESTER**

**SCHOOL OF ARTS, HUMANITIES SOCIAL
SCIENCES AND CREATIVE INDUSTRIES
DIPLOMA IN CRIMINOLOGY**

COURSE CODE: DCR 104

**COURSE TITLE: BIOLOGICAL EXPLANATIONS OF
CRIME AND DEVIANCE**

DATE: 30/5/2024

TIME: 0830-1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer Question **ONE** and any other **TWO** questions

*This paper consists of **TWO** printed pages. Please turn over.*

QUESTION ONE (COMPULSORY)

- a) Define the following concepts and provide examples where applicable **(10 marks)**
- i. Biological determinism
 - ii. Genetic predisposition
 - iii. Neurotransmitters
- b) Discuss the role of genetics in explaining criminal behavior, referencing twin studies and family pedigrees. **(10marks)**
- c) Analyze the limitations of biological explanations in understanding complex criminal behavior. **(10 marks)**

QUESTION TWO

- a) Describe the influence of hormones, such as testosterone, on aggression and its implications for criminal conduct. **(10 marks)**
- b) Discuss the ethical considerations associated with using biological explanations in the criminal justice system, particularly regarding determinism and free will. **(10 marks)**

QUESTION THREE

- a) Explain the concept of brain dysfunction and its connection to criminality, including specific brain regions implicated in antisocial behavior. **(10marks)**
- b) Critically evaluate the use of biological interventions, such as medication or therapy, in treating criminal offenders. **(10marks)**

QUESTION FOUR

Compare and contrast the theories of Lombroso and Sheldon in explaining criminal behavior from a biological perspective.

(20marks)

QUESTION FIVE

Evaluate the effectiveness of early intervention programs aimed at addressing biological risk factors for criminality in adolescents

(20 marks)

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