



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT
MASTER OF SCIENCE IN BIOETHICS
END OF SEMESTER EXAMINATION JANUARY-APRIL 2026

UNIT CODE: MBE 717 **UNIT NAME:** ETHICAL HOTSPOTS
DATE: April, 2026
TIME: Three Hours **Start:** 5:00 PM **Finish:** 8:00 PM

INSTRUCTIONS

1. This exam is marked out of 100 marks
2. This Examination comprises TWO Sections
Section A: Compulsory Question (25 marks)
Section B: Long Answer Questions (75 marks)

SECTION A: COMPULSORY (25 Marks)

Short Answer Questions

1. Define genetic privacy and its importance. (5 marks)
2. Explain one ethical concern in Artificial Intelligence in healthcare. (5 marks)
3. Describe three ethical issues in digital health. (5 marks)
4. Explain the concept of transhumanism. (5 marks)
5. Identify two ethical challenges in emerging biomedical technologies. (5 marks)

SECTION B (Set 5 Questions)

ANSWER ANY THREE (3) QUESTIONS (75 Marks)

Long Answer Questions

6. Analyse five ethical challenges associated with emerging technologies basing your argument on AI and genetic research. (25 marks)
7. Evaluate the ethical concerns related to digital health and ICT in healthcare or research by:
 - a) examining three risks related to confidentiality (5 marks)
 - b) discussing two concerns regarding data ownership. (5 marks)
 - c) discussing two ethical concerns regarding algorithm bias (5 marks)
 - d) propose three ethically justifiable safeguards (10 marks)
8. a) Using a clinical or educational scenario, evaluate five ethical implications of using patients as teaching tools. (15 marks)
b) Analyze three impacts on ethical clinical practice (10 marks)
9. Analyse five ethical issues in genetic research which touch on privacy, consent, and data ownership. (25 marks)
10. Examine four ethical tensions between technological innovation and protection of human dignity. (25 marks)