



AMREF INTERNATIONAL UNIVERSITY
UNIVERSITY EXAMINATIONS APRIL 2026
SCHOOL OF PUBLIC HEALTH
SEMESTER ONE EXAMINATION
DEPARTMENT OF COMMUNITY HEALTH
MASTER OF PUBLIC HEALTH

MBE 711: BIOETHICS

DATE: xxxxxxxx, 2026

TIME: 3 Hours

Start: 5.00pm

Finish: 8.00pm

INSTRUCTIONS

1. This exam is marked out of 100 marks
2. The first question is compulsory
3. Answer an additional three (3) questions from the other five (5)
4. The exam shall take 3 hours
5. Answer question 1 and any of three questions 2 to 6

SECTION A: COMPULSORY QUESTION ONE

1. You are asked to advise the minister of health of a country with limited resources. Describe and justify your ethical considerations for setting budgetary proportions for prioritising Covid interventions in the 5 counties with the following characteristics;
 - Oldest population: (5 marks)
 - Highest Covid prevalence: (5 marks)
 - With international airport: (5 marks)
 - Marginalized and least developed: (5 marks)
 - Large informal settlements
2. Discuss the ethical issues of the various parties in the following case study:

At seven months old, David Peter Reimer's penis was accidentally maimed during a routine circumcision. Dr. John Money, a psychologist studying the idea that gender is

learned, convinced the Reimer family that their son was now more likely to reach a successful sexual maturation if he were sexually reassigned as female. Over the years, Dr. Money continued to report that the reassignment had been nothing but successful, though he apparently failed to consult David. Before he committed suicide at the age of 38, David insisted that he had never identified as female, and described a childhood during which he was teased, cruelly ostracized by his peers, and was extremely depressed.

3. One of the top ten tax paying company has been accused of respiratory related industrial pollution. Discuss the primary, secondary and tertiary interventions in considering the following ethical tensions;
 - Individual versus community (5 marks)
 - Short versus long term (5 marks)
 - Rights versus responsibility (5 marks)
 - Economy benefit versus health (5 marks)
 - Burden versus benefit (5 marks)
4. Describe the ethical considerations of a drug trial in multigenerational households
 - Design (5 marks)
 - Sampling (5 marks)
 - Data management (5 marks)
 - Consent (5 marks)
 - Dissemination (5 marks)
5. Plan ethical strategies **of, in and for** as well as **critical** public health interventions concerning a community that practices marrying off their 12-16 year-old girls soon after puberty (25 marks).
6. In the following case study, identify the dilemma, ethically resolve it and advice the IVF bank accordingly(25 marks) .

Mr and Mrs K have five embryos stored at an IVF bank. during the couple's marriage. Both gave informed consent that authorized, retrieval of eggs, cryopreservation of the unused eggs, joint payment for cryopreservation.

The couple subsequently divorced and a dispute regarding custody of the frozen embryos.

Mrs K argued that she should have sole custody for her last opportunity to have biological children. Mr K wanted the embryos disposed off and argued that Mrs. K shouldn't have custody for unwanted fatherhood shouldn't be imposed on him.

The bank argued that since both Mr and Mrs K had refused to continue paying for cryopreservation, they would provide the embryos to deserving couples to recover the cost of cryopreservation