



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF HEALTH SYSTEMS MANAGEMENT AND DEVELOPMENT
MASTERS IN HEALTH SYSTEMS MANAGEMENT
MASTER OF SCIENCE IN HEALTH PROFESSIONS EDUCATION
MASTERS IN BIOETHICS
END OF SEMESTER EXAMINATION APRIL 2026
MAIN

UNIT CODE: HSM 714/MBE718/HPE 714 RESEARCH METHODS

DATE: 7TH APRIL, 2026

TIME: Three Hours

Start: 5:00PM

Finish 8:00PM

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

- Q1) Describe FIVE (5) acceptable ethical principles concerning research on human subjects (5 marks)
- Q2) Explain the functions of a moderator in a focus group discussion (6 marks)
- Q3) Describe five (5) key points considered when conducting interviews (5 marks)
- Q4) Explain FIVE (5) factors you would consider when determining your sample size before commencing a research study (5 marks)

Q5) Explain the considerations when writing a research report (6 marks)

SECTION B (Set 5 Questions)

ANSWER ANY THREE (3) QUESTIONS (75 Marks)

Long Answer Questions

- Q6) Health officials in County X have raised alarm after 540 residents reported to have been admitted in various hospitals following outbreak of Chikungunya fever. As a Health research project Officer for County X you are required to investigate the cause of the disease before a relevant intervention strategy is implemented. Discuss systematically a procedure you will use to design a research proposal for this investigation (25 marks)
- Q7) With an example in each case, describe FIVE (5) probability and FOUR (4) non-Probability sampling designs (25 marks)
- Q8a) Discuss five (5) qualities of an effective study population (10 marks)
- Q8b) Analyze six (6) characteristics of scientific research (15 marks)
- Q9) Once you have completed the rigorous exercise of planning and execution in your research study project, you have to make the work done and achievements publicly known, otherwise it would be a futile exercise. This communication is in written form. Describe the content of key sections of a research project report [25 marks]
- Q10) Your supervisor has asked you to carry out a study to diagnose the health problem that has been reported in the community. Explain why literature review is important in carrying out this type of research (25 marks)