



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

MAIN EXAM

UNIT CODE: HSM 714/MBE 718 Research methods
DATE: XX August, 2026
TIME: Three Hours **Start:** 4:00 PM **Finish:** 7: 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

- Q1). Explain why sampling is important in research (5 marks)
Q2). Explain two data collection methods for qualitative studies (5 marks)
Q3). Describe four advantages of using observation method to collect data (5 marks)
Q4). Explain why formulation of objectives is important in scientific research (5marks)
Q5). Describe the areas to consider when planning for data collection process (5 marks)

SECTION B (Set 5 Questions)

ANSWER ANY THREE (3) QUESTIONS (75 Marks)

Long Answer Questions

Q6). In a school there are about 1600 students and a researcher wants to determine the prevalence of Amoebiasis by testing stool in 350 students. The following table gives the distribution of students by class and number of streams

Class	No. of students	No. of streams
5	405	i. 8
6	310	4
7	580	5
8	650	7
Total	1945	24

- i) What type of sampling technique do you use? Why? (10 marks)
 - ii) Describe two type of non-probability sampling techniques (15 marks)
- Q7). It is suspected that stress-related disorders might be on the increase among workers at EPZ textile manufacturing industry, Machani state. You are required to conduct a study to establish the true status of stress related in the county
- i) State possible title of the study (5 marks)
 - ii) Generate one (1) broad and three (3) specific objectives for the study (10 marks)
 - iii) Discuss the study design that is appropriate for the study (10marks)
- Q8). i).Describe four (4) functions of hypothesis in research (10 marks)
 ii).Describe five (5) characteristics of a well stated hypothesis (15 marks)
- Q9). i) Discuss five (5) reasons why research proposals may fail (10 marks)
 ii). discuss seven (7) factors that can be used as criteria to identify good proposals (15 marks)
- Q10). Describe Ten (10) factors that students must consider when selecting the research problem (25 marks)