



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
DIPLOMA IN COMMUNITY HEALTH
END OF JANUARY-APRIL 2023 SEMESTER EXAMINATION

UNIT CODE: DCHP 118

UNIT NAME: MEDICAL MICROBIOLOGY

Date: 19TH April 2023

Time: 2 hours

Start: 9.00 AM **Stop:** 11.00 AM

INSTRUCTIONS

1. This exam is marked out of 60 marks
2. This Examination comprises TWO Sections
Section A: Compulsory Question (20 Marks)
Section B: Long Answer Questions (40 Marks)
3. All questions in Section A are compulsory and Answer any TWO questions in Section B

SECTION A: ANSWER ALL QUESTIONS (20 MARKS)

1. a) Describe Koch's postulates as a proof of germ theory of disease. (6 marks)
b) Highlight **FOUR** common characteristics used in classification of bacteria (4 Marks)

2. a) Giving examples, Outline **four** types of culture media (4 marks).
b) Illustrate bacterial growth phases using the bacteria growth curve (6 marks).

SECTION B: Long Answer Questions (40 MARKS)

Answer ANY TWO Questions

3. Answer the following questions on the human immune system;
 - a). Describe FIVE immune system in humans (10 Marks)
 - b). Highlight FIVE medical successes in knowledge of the immune system (10 marks)

4. a) Describe method of bacteriological analysis of water sample (8 marks)
b) Discuss interpretation of results of water sample (4 marks)
c) Discuss Sources of food contamination and give examples where applicable (8 marks)

5. Discuss various methods of sterilization giving examples where necessary (20 marks)