



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
DIPLOMA IN COMMUNITY HEALTH PRACTICE
END OF SEMESTER EXAMINATION APRIL 2024

UNIT CODE: DCHP 118
UNIT NAME: MICROBIOLOGY
Date: 12th APRIL 2024
Time: 2 Hours **Start:** 9.00 AM **Stop:** 11.00 AM

INSTRUCTIONS

DO NOT WRITE ON THE QUESTION PAPER

SECTION A: SHORT ANSWER QUESTIONS
ANSWER ALL QUESTIONS – 20 MARKS

1. a) Outline the Gram staining technique used in classification of bacteria giving example where necessary **(4 Marks)**
b) Highlight two methods of reproduction or multiplication among the parasitic protozoa **(4 Marks)**
2. Define the following terms and give examples where applicable:
 - a) Commensal and Conjugation **(2 marks)**
 - b) Zoonosis and vaccination **(2 marks)**
 - c) Pathogen and pathogenicity **(2 marks)**
3. Identify **four** factors affecting sterilization in medical field **(4 marks)**
4. Outline the tindalization as a process of sterilization **(4 marks)**

SECTION B: LONG ANSWER QUESTIONS
ANSWER ANY TWO QUESTIONS – 40 MARKS

5. Discuss various methods of sterilization, providing detailed descriptions and examples where necessary **(20 marks)**
6. Discuss the importance of ABO blood grouping and Rhesus typing, exploring their significance in blood transfusions, organ transplantation, and prenatal care **(20 marks)**
7. Discuss the immune system in humans, describing its components, functions, and mechanisms of action, while highlighting significant medical advancements achieved through the understanding of the immune system. **(20 marks)**