



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
DIPLOMA IN COMMUNITY HEALTH
END OF SEMESTER EXAMINATION SEPTEMBER-DECEMBER2025

UNIT CODE :DCHP 118 UNIT NAME MICROBIOLOGY

TIME:

Date : 5TH DECEMBER 2025

TIME : Two (2) Hours

INSTRUCTIONS TO CANDIDATES

- 1) This exam is out of 70 marks
- 2) Section-A is compulsory with a Total of 30 Marks
- 3) Answer any TWO (2) questions in Section B

Read carefully the additional instructions preceding each section.

SECTION A: COMPULSORY (30 Marks)

Short Answer Questions

1. Define microbiology (2 Marks)
2. Define epidemiology of microorganisms. (2 Marks)
3. Differentiate between sterilization and disinfection. (4 Marks)
4. State two uses of beneficial microorganisms. (4 Marks)
5. State meaning of the following terms
 - I. Reservoir (2 Marks)
 - II. Causative organism (2 Marks)
4. List three physical factors affecting microbial growth. (3 Marks)
5. Why is it important to study modes of disease transmission? (2 Marks)
6. List three main laboratory specimens for diagnosis. (3 Marks)
7. List the three main lines of body defense. (3 Marks)
8. Highlight the role of inflammation in infection. (3 Marks)

SECTION B

ANSWER ANY TWO (2) QUESTIONS (40 Marks)

2. a) Arboviruses has epidemiological importance in tropical regions. Discuss (9 Marks)
b) Explain how climate change and urbanization influence arboviral outbreaks. (6 Marks)
c) Describe control measures (5 Marks)
3. a) Classification of microorganisms can be applied in medical and environmental microbiology. (Discuss 12 Marks)
b) Laboratory diagnosis contributes to public-health decision-making. Discuss (8 Marks)
4. Discuss the importance of prevention and control methods of microorganisms in epidemiology. (20 Marks)