



AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF PUBLIC HEALTH
DEPARTMENT OF COMMUNITY HEALTH
BACHELOR OF SCIENCE IN COMMUNITY HEALTH
END OF SEMESTER EXAMINATION DECEMBER 2024

CHP 124: MICROBIOLOGY

DATE: MONDAY 9TH DECEMBER, 2024

TIME: TWO HOURS **START:** 9.00AM **FINISH** 11.0AM

INSTRUCTIONS

1. This exam is marked out of 70 marks
2. This Examination comprises TWO Sections
Section A: Compulsory Question (30 Marks)
Section B: Long Answer Questions (40 Marks)
3. All questions in Section A are compulsory
4. Answer any TWO questions in Section B

SECTION A: COMPULSORY (30 MARKS). SHORT ANSWER QUESTIONS

1. Outline any five ways of classifying of bacteria (5 marks)
2. Highlight five characteristics of fungi (5 marks)
3. State any five ways of identification of bacteria (5 marks)
4. Outline five types of diseases caused by bacteria. (5 marks)
5. State five sources of parasitic infection. (5 marks)
6. Highlight any five routes of entry of microbes into our bodies (5 marks)

SECTION B: ANSWER ANY TWO (2) QUESTIONS (40 MARKS). LONG ANSWER QUESTIONS

1. Most foodborne diseases are infections caused by a variety of bacteria, viruses, and parasites. Other diseases are poisonings caused by harmful toxins or chemicals that have contaminated food.
 - a. Discuss any five practices that can prevent food borne diseases (10 Marks)
 - b. Explain five factors that contribute to occurrence of foodborne diseases (10 Marks)
2. Infection prevention and control is a scientific approach and practical solution designed to prevent harm caused by infection to people grounded in infectious diseases, epidemiology, social science, and health system strengthening.
 - a. Discuss five ways in which you can advise community to control microbes. (10 Marks)
 - b. Explain the significance of microbiology in your career (10 Marks)
3. Discuss;
 - a. Discuss the economic significance of bacteria, moulds, and yeasts in the food industry, highlighting their positive and negative impacts (12 marks)
 - b. Explain any two reproductive mechanisms of microorganisms (8 Marks)