

60



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY

(MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS

MAIN EXAM

2023/2024 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN EPIDEMIOLOGY AND
BIOSTATISTICS**

COURSE CODE: PMC 212/HEM 216

COURSE TITLE: MEDICAL MICROBIOLOGY AND PARASITOLOGY

DATE: 7/12/2023

TIME:

8.00-10.00 AM

**INSTRUCTIONS TO CANDIDATES: ANSWER SECTION A ALL QUESTIONS
AND SECTION B TWO QUESTIONS.**

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

Paper Consists of 2 Printed Pages. Please Turn Over



SECTION A: SHORT ANSWER QUESTIONS (40 MARKS)

1. Defines the following terminologies (4 Marks)
 - a) Virulence
 - b) Pathogenesis
 - c) Obligate intracellular parasites
 - d) Aberrant parasites
2. Outline any four morphological classification of fungi (4 Marks)
3. List any four Superficial mycoses conditions (4 Marks)
4. Diagrammatically illustrate structure of a virus (4 Marks)
5. Outline at least eight mode of parasite transmission (4 Marks)
6. Define the term host and at least state three types of host parasite (4 Marks)
7. Outline four examples of hem-parasites of medical importance (4 Marks)
8. State Robert Koch postulates as proof of germ theory of diseases (4 Marks)
9. Explain application of microbiology in the field of public health (4 Marks)
10. With examples, classify bacteria based on temperature (4 Marks)

SECTION A: LONG ANSWER QUESTIONS (40 MARKS)

11. Describe parasitic disease of you choose under the following:
 - a) Etiology (1 mark)
 - b) Mode of transmission (3 marks)
 - c) Life cycle of the parasite (3 marks)
 - d) Sign and symptoms (3 marks)
 - e) Diagnosis (1 mark)
 - f) Treatment (1 mark)
 - g) Prevention and control (3 marks)
12. Describe factors affecting growth of micro-organism (15 Marks)
13. You have been appoint as a keynote speaker on possible management, prevention and control strategies of commonly fungal infection among school going children in Lurambi sub-county, describe possible measure you would share with the stakeholders (15 Marks)