



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION DECEMBER 2023 SECOND YEAR FIRST
SEMESTER EXAM FOR THE DEGREE OF BACHELORS IN PUBLIC HEALTH /
COMMUNITY HEALTH AND DEVELOPMENT
MAIN CAMPUS

HBB 9201: MEDICAL MICROBIOLOGY

EXAM VENUE: **STREAM: (BSc. P. Health / Comm Hlth & Dev)**

DATE: **EXAM SESSION:**

TIME: 2.00 HOURS

INSTRUCTIONS:

1. THIS PAPER CONSISTS OF TWO SECTIONS A&B
2. ANSWER ALL THE QUESTIONS IN SECTION A AND ANY OTHER 2 QUESTIONS IN SECTION B
3. CANDIDATES ARE ADVISED NOT TO WRITE ON THE QUESTION PAPER.
4. CANDIDATES MUST HAND IN THEIR ANSWER BOOKLETS TO THE INVIGILATOR WHILE IN THE EXAMINATION ROOM

SECTION A- ANSWER ALL QUESTIONS (30 MARKS)

1. With any 3 examples, differentiate disinfectant and antiseptic (3 marks)
2. Differentiate prokaryotes from eukaryotes, with one example each (3 marks)
3. With 2 examples, distinguish between growth factor analogue and antibiotics(4marks)
4. Enumerate 3 types of microbial diversity (3 marks)
5. Briefly explain any 2 ecological relationships of microorganisms (3 marks)
6. Highlight 4 properties of bacteria (4 marks)
7. With examples, outline 3 effects of produced by antimicrobial agents (3 marks)
8. Distinguish between anabolism and catabolism (4 marks)
9. Name any 3 clinical classes of fungi with the diseases caused (3 marks)

SECTION B- ANSWER ANY TWO QUESTIONS FROM THIS SECTION (40 MARKS)

10. Describe with examples the classification of bacteria (20marks)
11. Explain the environmental factors that affect growth of microbes (20 marks)
12. Describe any 4 common sterilization methods used in community or facility setting
(20 marks)
13. Discuss any five ways in which microorganisms may be useful to man (20 marks)