



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

MAIN CAMPUS

UNIVERSITY EXAMINATION DECEMBER 2018 SECOND YEAR FIRST SEMESTER EXAM FOR

THE DEGREE OF BACHELORS IN PUBLIC HEALTH / COMMUNITY HEALTH AND

DEVELOPMENT

SBI 3211: BASIC 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 between disinfectant and antiseptic (3 marks)
2. Giving one example, Differentiate prokaryotes from eukaryotes (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. Describe 4 characteristics 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)