

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE CERTIFICATE IN COMMUNITY HEALTH AND DEVELOPMENT

1ST YEAR 2ST SEMESTER 2023/2024 ACADEMIC YEAR

MAIN/KISUMU CAMPUS

HCD 1121

COURSE CODE:

COURSE TITLE:

EXAM VENUE:

DATE:

EXAM SESSION:

BASIC MICTOBIOLOGY

STREAM: Cert. Comm. Health & Dev

TIME: 1.30 HOURS

Instructions:

- 1. Answer all the questions in Section A and 2 questions in Section B.
- 2. Candidates are advised not to write on the question paper.
- **3.** Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A- ANSWER ALL QUESTIONS (30 MARKS)

1. Distinguish the following

	a. light and electron microscope	(4marks)
	b. Prokaryotes and Eukaryotes	(4marks)
	c. Liquid and semi-solid culture media	(4marks)
2.	Enumerate any 3 macronutrients used by microbial cells for growth	(3 marks)
3.	Highlight any 3 microbial diversity that exist in microorganisms	(3 marks)
4.	Outline three major groups of fungi	(3 marks)
5.	State and explain 2 organisms that are affected by oxygen	(3 marks)
6.	State with examples the morphological classification of bacteria	(6 marks)

SECTION B- ANSWER ANY TWO QUESTIONS FROM THIS SECTION (30 MARKS)

7.	Discuss the characteristics of a microbial cell	(15 marks)
8.	With a clear illustration, highlight the functions of a microscope	(15 marks)
9.	Discuss any five ways in which microorganisms may be useful to man	(15 marks)