

## JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES

# UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH AND DEVELOPMENT

1<sup>ST</sup> YEAR 2<sup>ND</sup> SEMESTER 2022/2023 ACADEMIC YEAR

#### MAIN CAMPUS

COURSE CODE: HDC 2121

COURSE TITLE: BASIC MICROBIOLOGY

EXAM VENUE:

**STREAM: (Dip Comm Health & Dev)** 

DATE:

EXAM SESSION:

**TIME: 1 1/2.00 HOURS** 

**Instructions:** 

- **1.** Answer all the questions in Section A and ANY other 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

1.	Distinguish the following	
	a. Halophiles and Psychrophiles	(2marks)
	b. Anabolism and catabolism	(2marks)
	c. Resolution and magnification	(2marks)
	d. Prokaryotes and Eukaryotes	(2marks)
2.	Enumerate any 3 micronutrients used by microbial cells for growt	h (3 marks)
3.	Highlight any 3 ecological relationships that exist in microorganis	sms (3 marks)
4.	Outline the classification of fungi	(3 marks)
5.	State and explain 6 organisms that are affected by temperature	(3 marks)
6.	With examples, state the classification of viruses	(4marks)
7.	State with examples the morphological classification of bacteria	(6 marks)

## **SECTION B**

8.	Discuss the characteristics of a microbial cell	(15 marks)
9.	Describe the classification of bacteria	(15 marks)
10.	With a clear illustration, describe the process of growth of microorganisms	s(15 marks)
11.	Discuss any five ways in which microorganisms may be useful to man	(15 marks)