

MURANG'A UNIVERSITY OF TECHNOLOGY SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES

DEPARTMENT OF HEALTH SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR SECOND YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR

OF EDUCATION (SCIENCE)

AZL 203: BASIC IMMUNOLOGY

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- 1. Answer question one and any other two questions.
- 2. Mobile phones are not allowed in the examination room.
- 3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

a. i. Define immunology.	(1 mark)
ii. Explain its significance in field of biology.	(4 marks)
b. Describe the process of phagocytosis in the context of immune systems.	(5 marks)
c. Differentiate between innate and adaptive immunity.	(5 marks)
d. Highlight how antibodies contribute to the immune response.	(5 marks)
e. Explain how vaccines work in preventing infection diseases.	(5 marks)
f. Highlight on the primary lymphoid organs and their role in the immune systems.	
	(5 marks)
SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION	
QUESTION TWO (20 MARKS)	
Describe the factors that influence antigenicity.	(20 marks)
QUESTION THREE (20 MARKS)	
Discuss the concept of immunology memory.	(20 marks)
QUESTION FOUR (20 MARKS)	

Discuss inflammation and its role in the immune system. (20 marks)