

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES UNIVERSITY EXAMINATION FOR DEGREE OF MASTER 2ND YEAR 1ST SEMESTER 2023/2024 ACADEMIC YEAR MAIN/KISUMU

COURSE CODE:	HCB 1201
COURSE TITLE:	BASIC IMMUNOLOGY
EXAM VENUE:	STREAM: BSc. Community Health & Development
DATE:	EXAM SESSION:
TIME:	2.00 HOURS

Instructions:

- 1. Answer ALL questions in section A and any other TWO 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 (Total 30 marks)

1. a. Differentiate specific from non-specific immune responses (4	4 mks)	
b. Briefly describe the various units that make the <i>immune system</i> , citing examples (6)	6 mks)	
2. Briefly describe any two common challenges in studying <i>immunology</i> (4	4 mks)	
3. Explain the main difference between <i>passive</i> and <i>active</i> immunity		
4. Briefly explain the basis of <i>immunoglobulin</i> classification, naming the human antibodies(6 mks)		
5. Describe briefly the three key functions of the <i>complement activation</i> (6)	6 mks)	

Section B: Answer ANY TWO Questions

1.	Discuss any 5 characteristics of a substance that deteremine its immunogenicity	(20 mks)
2.	Discuss any 5 qualities of cytokines, explaining how these affect their role in immunity	ty
		(20 mks)
3.	With the help of a well-labeled diagram, show how IgG and IgM levels vary between	primary
	and secondary encounter with the same antigen	(20 mks)
4.	Discuss immunodeficiency as a failure of the immune system	(20 mks)