

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY UNIVERSITY EXAMINATIONS 2023/2024

EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN MOLECULAR MEDICINE

TIM 3100: PRINCIPLES OF IMMUNOLOGY

DATE: AUGUST 2024		TIME: 3 HOURS
INSTRUCTIONS: Attempt any FOUR questions		
1.	(a) Discuss any ten determinants of innate immunity(b) Draw a well-labelled diagram of immunology	(20 marks) (5 marks)
2.	With the aid of a flow diagram, describe the process of haematopoiesis	(25 marks)
3.	(a) Give a brief account of various organs and tissues of the immune syst (b) Elucidate how extracellular pathogens are destroyed through the proc	
4.	Discuss various determinants of antigenicity and/or immunogenicity	(25 marks)
5.	Highlight various medical applications of antibodies	(25 marks)
6.	 a) Describe various immune defence mechanisms against; i. Bacterial infections ii. Parasitic infections iii. Viral infection b) Describe ways of generating TCR repertoire 	(5 marks) (5 marks) (5 marks) (10 marks)