CHUKA



UNIVERSITY

# UNIVERSITY EXAMINATION RESIT /SPECIAL EXAMINATION EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOCHEMISTRY

# **BMET 417: IMMUNOLOGY AND IMMUNOCHEMISTRY**

	STREAMS:	TIME: 2 HOURS	
	DAY/DATE: WEDSDAY 03/11/2021	2.30 P.M – 4.30 P.M	
	INSTRUCTIONS		
i. ii.	Answer Question One and any other Two Questions Do not write on the question paper		
	Question One (30 marks)		
a)	Briefly describe the cells that originate from the myeloid lineage .	(6 marks)	
b) What are the various humoral barriers to infection that protects the body once the anatomical			
	barriers have been breached?	(6 marks)	
c, Phagocytic cells have a variety of receptors on their cell membranes through which infectious			
	bind to the cells. These include?	(6 marks)	
c)	c) Differentiate between the antigenic determinants recognized by B cells and those recognized by		
	T cells in terms of composition size and number.	(6 marks)	
d) Antigen antibody reactions can also be measured by their ability to fix complement. E			
		(6 marks)	

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## **Question Two (20 marks)**

a)	With the aid of well labeled diagram describe the lymphoid organs.	(10 marks)
b)	Describe in detail the basic types of vaccines	(10 marks)

#### **Question Three (20 marks)**

- a. With the help of a well labeled diagram, explain in deatail the basic structure of immunoglobulins . (10 marks)
- b. The MHC gene complex contains a number of genes that control several antigens. Discuss.

(10 marks)

### **Question Four (20 marks)**

a) Elucidate the various mechanisms that contribute to the pathogenesis of autoimmune diseases.

	(10marks)
b) Discuss in details the classical pathway of complement activa	tion. (10 Marks)

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