

## SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHERLOR OF SCIENCE BIOTECHNOLOGY, BIOCHEMISYRY & CELL AND MOLECULAR BIOLOGY SECOND SEMESTER 2022/2023 (JUNE - SEPTEMBER, 2022)

**BIOC 221/ZOOL 221: INTRODUCTION TO IMMUNOLOGY** 

STREAM: Y2 S2 TIME: 2 HOURS

DAY: THURSDAY, 9:00 AM - 11:00 AM DATE: 15/09/2022

## **INSTRUCTIONS:**

1. Do not write anything on this question paper.

2. Answer ALL Questions in section A (Compulsory) and any other TWO

## **SECTION A (40 Marks)**

1.	Explain experimental criteria to determine disease causation of according to	
	Koch	(5Marks)
2.	Briefly explain the causes of immunogenicity	(5Marks)
3.	Explain the major features of innate immunity	(5Marks)
4.	Discuss Host-Pathogen interactions and the body's normal flora	(5Marks)
5.	Use a diagram to classify adaptive immunity	(5Marks)
6.	Outline a diagrammatic scheme to show lineage of Leucocytes	(5Marks)
7.	Discuss the steps involved in an inflammatory reaction	(5Marks)
8.	Explain the functions of primary lymphoid organs	(5Marks)
SECTION B (30 Marks)		
9.	Discuss the causes of autoimmune diseases	(15Marks)
10	Discuss the basic structure and functions of antibodies	(15Marks)
11	. Give a detailed explanation of mechanisms of pathogenesis	(15Marks)