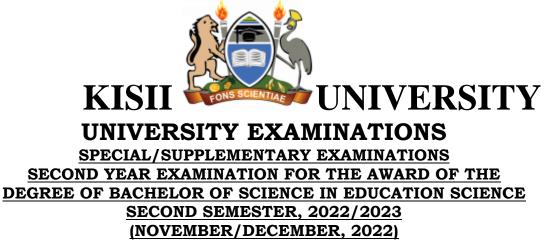
BIOT 312



BIOT 312: IMMUNOLOGY AND IMMUNOTECHNOLOGY

STREAM: Y2 S2

TIME: 2 HOURS

DAY:

DATE: 00/12/2022

INSTRUCTIONS

- 1. Do not write anything on this question paper.
- 2. Answer ALL the questions in section A [Compulsory] and any other TWO Questions from section B.

SECTION A: 40 MARKS (ANSWER ALL QUESTIONS)

- 1.
- a. Define MHC, types and state its functions in immunological responses

(5 marks)

- **b.** Explain agglutination and its types (6 marks)
- c. Describe the classes of grafts by donor-recipient relationship (6 marks)
- d. Distinguish between a particulate and soluble antigen (4 marks)
- e. explain the sources of secondary immune deficiency citing suitable examples (8 marks)
- f. Differentiate between affinity and avidity (4 marks)

g. Explain the methodology of complement fixation test (5 marks)

SECTION B: 30 MARKS (ANSWER ONLY TWO QUESTIONS)

2. Discuss the ELISA tests, types and its role in medical diagnostics (15 marks)

3.	Discuss the immunology of HIV/AIDS	(15 Marks)
4.		
	a. Describe the roles of monoclonal antibodies	(8 marks)

b. Explain the types of transplantation rejections (7 marks)