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University Examinations 2024/2025

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN BIOCHEMISTRY AND BACHELOR OF EDUCATION SCIENCE

SZL 3302/3305: BASIC IMMUNOLOGY /IMMUNOLOGY I

DATE: JANUARY 2025

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Give two examples each of primary and secondary lymphoid organs (4 marks)
- b) Draw a well labelled diagram of basic structure of immunoglobulin (5 marks)
- c) List three antigen presenting cells involved in immune response (3 marks)
- d) State three immunological functions of immunoglobulins (3 marks)
- e) Name various T-cells and important markers they possess (3 marks)
- f) Name three characteristics of antigens (3 marks)
- g) List and explain briefly any three components of innate immune response (6 marks)
- h) Explain briefly, the difference between humoral and adaptive cell mediated immune response (3 marks)

QUESTION TWO (20 MARKS)

Discuss various types of antigens

QUESTION THREE (20 MARKS)

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Describe types of vaccines commonly used in Kenyan Children

QUESTION FOUR (20 MARKS)

Discuss the different classes of immunoglobulin