

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

ANHE 00124: BASIC IMMUNOLOGY & VACCINES

STREAMS: CERT (ANHE) Y2S2

TIME: 2 HOURS

DAY/DATE: THURSDAY 7/12/2017

11.30 A.M - 1.30 P.M.

INSTRUCTIONS:

- Answer ALL Questions in Section A and TWO in Section B
- Do not write anything on the question paper

1. Define the following [10 Marks]
 - (i) Antigen
 - (ii) Antibody
 - (iii) NK Cells
 - (iv) Adjuvant
 - (v) Vaccinology
2. Name two key individuals who contributed to the development of immunology and vaccinology. [2 Marks]
3. List three functions of the immune system. [3 Marks]
4. Name any two immune disorders. [2 Marks]
5. List the primary lymphoid organs. [2 Marks]
6. List three types of vaccines. [3 Marks]
7. Which cells are involved in humoral immunity? [2 Marks]
8. Which cells are involved in cell-mediated immunity? [2 Marks]
9. Identify the cardinal signs of inflammation. [5 Marks]
10. Name any two secondary lymphoid organs. [2 Marks]
11. What is the difference between primary and secondary lymphoid organs? [4 Marks]
12. Name three immune cells. [3 Marks]

SECTION B

13. Differentiate between innate and adaptive immunity. [15 Marks]
14. With the aid of a diagram, describe the process of hematopoiesis. [15 Marks]
15. Describe the steps that occur during a humoral response. [15 Marks]