**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATION 2017/2018**

**EXAMINATION FOR THE DEGREE OF BARCHELOR OF SCIENCE IN**

**ANIMAL HEALTH**

**AAP 2302/AAP 2206**

**DATE: DECEMBER 2017 TIME: 2 HOURS**

**INSTRUCTIONS:**

**ANSWER QUESTION ONE [COMPULSORY] AND ANY OTHER TWO QUESTIONS**

**QUESTION ONE [30 MARKS]**

1. Distinguish between innate and specific immunity (5 marks)
2. Describe briefly the development of the cells of the immune system(5 marks)
3. Outline the functions of antibodies in immune responses (5 marks)
4. Using examples, explain the different types of transplantation (5 marks)
5. State the biological functions of the complement system ( 5marks)
6. Explain briefly the role of T-lymphocytes in immune response (5 marks)

**QUESTION TWO [20 MARKS]**

Discuss the sensitization and effector phases of Hypersensitivity type IV reaction (20 marks)

**QUESTION THREE [20 MARKS]**

Discuss the success of vaccination in the control of poultry disease. (20 marks)

**QUESTION FOUR [20 MARKS]**

Explain host immune responses to bacterial and viral infection (20 marks)

**QUESTION FIVE [20 MARKS]**

Discuss the possible consequences of antigen entry into an immunocompetent host. (20 marks)