



## **MASENO UNIVERSITY**

### **UNIVERSITY EXAMINATIONS 2016/2017**

**THIRD YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE OF BACHELOR OF SCIENCE IN MEDICAL  
BIOTECHNOLOGY WITH INFORMATION TECHNOLOGY**

### **MAIN CAMPUS**

### **PMB 323: MEDICAL VIROLOGY**

Date: 5<sup>th</sup> June, 2017

Time: 12.00 - 3.00 pm

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#### **INSTRUCTIONS:**

- Answer ALL questions in SECTION A and TWO questions from SECTION B.



**BSC. MEDICAL BIOTECHNOLOGY**

**EXAMINATION 2017**

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**PMB 323: MEDICAL VIROLOGY**

**YEAR 1 SEMESTER 2**

**Answer question one and Two questions in section B**

1. Discuss the basis for the use of Haemagglutination inhibition test in the diagnosis of human influenza virus disease (5mks)
2. Discuss briefly the mechanisms involved in the establishment of Herpes Simplex virus latency and reactivation from latency (5mks)
3. Discuss the aetiology and pathogenesis of Ebola virus infection (5mks)
4. Discuss the process involved in genome replication and translation of small pox virus infection (6mks)
5. Discuss the steps involved in the replication process of a negative stranded RNA Virus (7mks)
6. What is a virus (2mks)

**Section B: ANSWER Two Question, ONE is COMPULSORY**

1. Using the Human immunodeficiency virus-1, Discuss the rationale for the use of "highly active antiretrovirus drug (HAART) in the management of Acquired immunodeficiency syndrome (20mks)
2. Relate the aetiology and pathogenesis of Poliomyelitis virus to the clinical symptoms of the disease (20mks)
3. Outline the various mechanisms which viruses and cancer cells can become resistant to chemotherapeutic drugs (20mks)