

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**FOURTH YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL MICROBIOLOGY**

**MMB 2402: MEDICALVIROLOGY II**

**DATE: DECEMBER, 2019 TIME: 2 HOURS**

INSTRUCTION: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

**QUESTION ONE: 30 MARKS**

a. Describe the factors that affect viral pathogeni mechanisms. (6 marks)

b. Describe briefly the stages of viral replication. (6 marks)

c. Describe how viruses can induce structural alterations in the host cell’s cytoplasm. (6 marks)

d. Outline the various factors that determine viral tissue tropical.(6 marks)

e. Briefly describe the causes of direct cell damage and death from viral infection. (6 marks)

**QUESTION TWO: 20 MARKS**

Discuss the role of viruses in apoptosis during infection.

**QUESTION THREE: 20 MARKS**

Discuss the pathogenesis of hepatitis B virus.

**QUESTION FOUR: 20 MARKS**

Discuss the sequence of virus spread in the host.