

W1-2-60-1-6

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY UNIVERSITY EXAMINATIONS 2022/2023

EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN MEDICAL VIROLOGY

TMM 3119: MEDICAL VIROLOGY II

DATE: FEBRUARY 2023

TIME: 3 HOURS

INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS

QUESTION 1

Discuss Lyssa Viruses with respect to:

a) Classification

(5 marks)

b) Transmission and clinical presentation

(10 marks)

c) Immune evasion mechanisms and diagnosis

(10 marks)

QUESTION 2

a.) Discuss, with virus examples, the most common causes of acute viral gastroenteritis (10 marks).

b.) Describe the pathophysiology of viral gastroenteritis (5 marks).

c.) Describe the typical historical and physical exam features of acute viral gastroenteritis (10 marks).

QUESTION 3

Discuss polio virus in terms of clinical presentation, pathogenesis, Immune response, laboratory diagnosis and prevention (25 marks)

QUESTION 4

a) Distinguish between Chronic aggressive (Active hepatitis) and Hepatocellular carcinoma (10 marks)

b) Describe control measures for Hepatitis B virus (15 marks)

QUESTION 5

- a) List the commonly described coronaviruses that infect human (7 marks)
- b) Describe MERS-CoV under the following:
 - i. Classification (3 marks)
 - ii. Transmission (3 marks)iii. Epidemiology (5 marks)
 - iv. Diagnosis (5 marks)
 - v. Prevention and control (2 marks).

OUESTION 6

- a) Describe the transmission, clinical manifestation, and diagnosis of human cytomegalovirus (hCMV) infections (15 marks)
- b) What are the clinical consequences/outcomes of hCMV infections and how can they be averted? (10 marks)