

BOWEN UNIVERSITY, IWO
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE
MICROBIOLOGY PROGRAMME
2021/2022 FIRST SEMESTER EXAMINATION

MCB 417: VIROLOGY AND TISSUE CULTURE
(THEORY OF PRACTICAL)

Answer ALL questions.

Time allowed: 1hr 15 mins

1. If you are given an aliquot of Influenza virus antigen, describe how you will cultivate it in an embryonated Hen's egg (8 marks)
2. (a) Describe Indirect ELISA technique (4 marks)
(b) Highlight how you will approach the diagnosis of HIV in a 2-month old baby delivered by a seropositive mother (4 marks)
3. If 0.1ml of virus suspension from dilutions of 10^{-1} , 10^{-2} , 10^{-3} , 10^{-4} and 10^{-5} each was inoculated into ten mice and paralysis was observed in 10, 10, 4, 1 and 0 mice respectively. Calculate the titre of the virus using Reed and Muench method (9 marks).

(25 marks)