



National Open University Of Nigeria

Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja

Faculty of Science

JANUARY/FEBRUARY 2018 EXAMINATIONS

COURSE CODE: BIO 415 CREDIT UNITS: 2

COURSE TITLE: VIROLOGY AND TISSUE CULTURE

TIME ALLOWED: 2 Hours

INTRUCTION: Answer question ONE (1) and any other THREE (3) questions

- 1a. Name the chemical constituents of viruses (2marks)
- b. What is the name of the virus that causes foot and mouth disease? (1mark)
- c. List the five families of RNA viruses important to man (5marks)
- d. What are viroids? (1mark)
- e. List the steps involved in the viral replication cycle. (7marks)
- f. Name the anti-viral drugs licensed for use in man. (7marks)
- g. List the various methods of assessing the purity of virions (2marks)

2a. Discuss the modes of transmission in viruses (10marks)

b. Explain the direct transmission of viruses (5marks)

3a. What do you understand by the term vaccination? (5marks)

b. Briefly discuss attenuated virus vaccine. (10marks)

4a. Discuss the Human Immuno-Deficiency Virus (HIV) (10marks)

b. Write briefly on the diagnosis of the Acquired Immune Deficiency Syndrome (AIDS) (5marks)

5a. What do you understand by continuous cell lines? (5marks)

b. Discuss how viruses can be preserved for research purposes. (10marks)