



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)
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- 2a. Discuss the modes of transmission in viruses (10marks)
 - b. Explain the direct transmission of viruses (5marks)
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- 3a. What do you understand by the term vaccination? (5marks)
 - b. Briefly discuss attenuated virus vaccine. (10marks)
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- 4a. Discuss the Human Immuno-Deficiency Virus (HIV) (10marks)
 - b. Write briefly on the diagnosis of the Acquired Immune Deficiency Syndrome (AIDS) (5marks)
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- 5a. What do you understand by continuous cell lines? (5marks)
 - b. Discuss how viruses can be preserved for research purposes. (10marks)