



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE
EXPRESS WAY, JABI - ABUJA.
FACULTY OF SCIENCE
Department of Biological Sciences
2025_2 EXAMINATIONS.

BIO415: Virology and Tissue Culture

TIME: 2Hours

CREDIT UNITS: 2

INSTRUCTION: Attempt THREE questions in all. Question 1 is compulsory

- 1a. Discuss the nucleic acids component of viruses (10 marks)
- 1b. Explain how viral infections are transmitted from host to host (10 marks)
- 1c. Discuss the symptoms and clinical presentation of Acquired Immune Deficiency Syndrome (AIDS) (10 marks)

- 2a. Discuss the factors used in the classification of Viruses into families (9 marks).
- 2b. Highlight the general characteristics of viruses? (11 marks)

- 3a. A good anti-viral agent must be capable of selectively inhibiting viral functions without damaging the host cells. Explain the mode of actions of the anti-viral drugs that are in use today (12 marks)
- 3b. Discuss the use of Live-Attenuated virus vaccines in viral diseases control. (8 marks).

- 4a. Rabies is a viral infection of dogs. Discuss the clinical features and symptoms of rabies disease? (15marks)
- 4b. Explain the process of preservation of viruses for research purposes. (5 marks)

- 5a. Discuss the group of viruses called Arboviridae (5marks)
- 5b. In a tabular form, list 10 medically important viruses and infection caused by each virus (10marks)
- 5c. Explain Continuous Celline in the Cultivation of viruses (5marks)