



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI - ABUJA**  
**FACULTY OF SCIENCES**  
**DEPARTMENT OF PURE AND APPLIED SCIENCES**  
**SEPTEMBER, 2020\_1 EXAMINATIONS**

**COURSE CODE: BIO415**

**COURSE TITLE: VIROLOGY AND TISSUE CULTURE**

**CREDIT: 2 units**

**TIME ALLOWED: 2 Hours**

**INSTRUCTION: Answer question ONE (1) and any other FOUR (4) questions**

- 1a. Write notes on viral nucleic acids (5marks)
  - b. What are viral carbohydrates? (5marks)
  - c. What do you understand by Complex structures in viral symmetry? (4marks)
  - d. Name the 8 genera in the subfamily Chordopox Virinae (8marks)
  - e. List the 3 genera in the family Rahbdoviridae (3marks)
2. Write fully on Poxviridae (15marks)
- 3a. Discuss Embryonated eggs as one of the cells used in cultivation virus (10marks)
  - 3b. List the 5 minor signs of Acquired Immunodeficiency Syndromes (5marks)
4. Explain in detail cell cultures in Virology (15 marks)
5. Discuss the treatment and control of Rabies (15marks)