



**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA**  
**SCHOOL OF LIFE SCIENCES**  
**DEPARTMENT OF MICROBIOLOGY**  
**SECOND SEMESTER EXAMINATIONS, 2017/2018 SESSION**  
**COURSE CODE: MCB 521 (3 UNITS)**  
**COURSE TITLE: INTRODUCTION TO VIROLOGY**

**Instruction: Answer any five (5) questions**

**Time: 2½ Hours**

1. Briefly explain the methods used in cultivating viruses in the laboratory
2. Explain in details why diseases associated with viruses cannot be cured with antibiotics
3. (a) Giving specific examples, differentiate between DNA and RNA viruses  
(b) Explain why mutation rate is more with RNA viruses
4. Discuss the properties of viral particles
5. Write an essay on classification of viruses
6. Write short notes on the following
  - (a) Lytic phase of viral replication
  - (b) Lysogenic phase of viral replication
7. Explain the pathogenesis of Ebola virus disease