

FEDRAL UNIVERSITY OF TECHNOLOGY, MINNA  
DEPARTMENT OF PLANT BIOLOGY  
FIRST SEMESTER BTECH. EXAMINATION, 2017/2018 SESSION

COURSE CODE: PLB 516  
COURSE TITLE: PLANT VIROLOGY  
CREDIT UNITS: 3 UNITS  
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS IN ALL

1.
  - a. Highlight the various central themes of virus definition.
  - b. Give a critique of the statement 'All viruses are living organisms'
  - c. State five (5) economic importance of plant viruses
  - d. Define viroid and give an example of disease caused by viroid.
  
2.
  - a. Write notes on the architecture of plant viruses
  - b. Expatriate on the nucleic acid of plant virus
  - c. List five (5) groups to which plant viruses have been classified
  
3.
  - a. Describe the various criteria for identification of plant viruses
  - b. Highlight the factors that govern expression of viral symptoms in plants
  - c. List the various symptoms of Groundnut Rosette disease
  
4. Explain Cassava Mosaic Disease under the following headings:
  - i. Symptoms
  - ii. Causal agents
  - iii. Vectors
  - iv. Management
  
5.
  - a. Write notes on external symptoms of plant viruses
  - b. How does virus move from one part of a plant to another part?
  
6.
  - a. "The virulence of any virus depends on their ability to survive and multiply in their host tissues". Discuss!
  - b. Give a detailed description of serological test for virus identification.