



**ELIZADE UNIVERSITY,  
ILARA-MOKIN, NIGERIA**

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

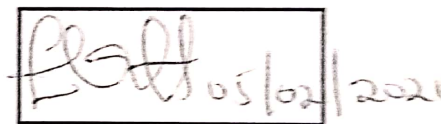
**FIRST SEMESTER EXAMINATION**

**2019/2020 ACADEMIC SESSION**

**COURSE CODE: MCB 303**

**COURSE TITLE: VIROLOGY**

**DURATION: 2 HOURS**



**HOD's SIGNATURE**

**NAME:.....**

**MAT.**

**No:.....**

**INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO (2)  
QUESTIONS IN SECTION B**

## QUESTIONS

### SECTION A (Answer all)

1. a. State the mode of transmission of the following viral diseases in human
    - i. Bronchiolitis
    - ii. Hepatitis C
    - iii Mumps
    - iv. Herpes
    - v. Pneumonia
    - vi. Polio
    - vii. AIDS
    - viii. Ebola
    - ix. Measles
    - x. HPV
  - b. State the differences between endocytosis and exocytosis.
  - c. Write short note on ID 50.
  - d. What are the factors that determine host susceptibility to viral infection?
  - e. What is the difference between a pathogen and virulent virus? **(15marks)**
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2. a. Highlight the types of white blood cells that act as second line of defense against viral infection.
  - b. State the functions of the following substances in viral attack:
    - i. Pectinase
    - ii. Phytoalexin
  - c. State the difference in the mode of action of T- and B-cells in defending against viral attack.
  - d. Write short notes on the following and give examples
    - i. Productive infection
    - ii. Non productive infection
  - e. Discuss briefly the mode of action of interferons. **(15marks)**

### SECTION B (Answer any 2)

1. Explain viral replication and their methods of spreading to uninfected cells.
2. Discuss cytopathic effect and its significance. **(15marks)**
3. Name the three (3) viral diseases outbreak currently in Nigeria, Africa and China stating the name of the viruse(s) and the disease(s) they cause. **(15marks)**