



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

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

**FIRST SEMESTER EXAMINATION**

**2018/2019 ACADEMIC SESSION**

**COURSE CODE: MCB 303**

**COURSE TITLE: GENERAL VIROLOGY**

**DURATION: 2 HOURS**

**HOD's SIGNATURE**

**NAME:.....**

**MAT. No:.....**

**INSTRUCTIONS: Answer ANY three (3) questions.**

1. a) Classify the following defense systems against viral attack according to host lines of defense mechanisms.

- i) lignin          ii) stomach acid          iii) interferons          iv) skin          v) tears  
vi) neutrophils      vii) blood clot          viii) ethylene      ix) B cells          x) mucus  
xi) macrophages      xii) eosinophils          xiii) hydrogen peroxide          xiv) cell wall  
xv) T lymphocytes

b) Explain BRIEFLY what you know about passive and active immunity against viral attack.

c) What is Minimum Infective Dose (MID)?

d) Mention 2 differences between antibodies produced against a virus and interferons produced by a viral infected cell

e) State two characteristics of virusoids.

2. (a) In your own terms, describe the living and non-living characteristics of viruses.

(b) List eight (8) plant pathogenic viruses and describe any two of them.

(c) List the Baltimore classification of viruses.

3. (a) With the aid of a diagram, describe the Ebola virus.

(b) Discuss briefly the classification of viruses.

(c) Describe the process of viral replication

4. (a) With examples, describe cytopathic effects of viruses

(b) Explain the primary purposes of virus cultivation.

(c) List and explain any four (4) methods of purifying viruses.

5. a) State 2 types of viruses that can be transmitted via the following methods

i) through body fluids          ii) faecal-oral route          iii) skin to skin

iv) mother to child          v) aerosols

b) What are propagative and non-propagative viral vectors?

c) From a typical structure of a virion, state FIVE important parts and their functions

d) What is Systemic Viral Infection?

e) Mention 3 common routes viruses use in spreading within a plant tissue