



# CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE

2021/2022 HARMATTAN SEMESTER EXAMINATIONS

COLLEGE: NATURAL AND APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

PROGRAMME: BIOCHEMISTRY

COURSE CODE: BCH 425

COURSE UNIT: 3

COURSE TITLE: BIOCHEMISTRY OF VIRUSES AND PARASITES.

STATUS: REQUIRED.

TIME ALLOWED: 2 HOURS

**INSTRUCTION:** ANSWER ANY OTHER FOUR (4) QUESTIONS.

1 (a) Define virus? (2 marks)

(b) Write note on the definitive properties of a virus. (13 marks)

2 (a) Explain five mechanisms employed by the parasite to evade the host immune system. (7.5 marks)

(b) Describe clearly the structure of the parasite membrane. Illustrate your answer with diagrams. (7.5 marks)

3. With the help of a metabolic partway describe how parasites obtain nutrients from their hosts. (15 marks)

4. Explain in detailed Interferon. Illustrate your answer with diagrams if necessary. (15 marks)

5 How would you detect viral antigen in a given sample using Enzyme- Linked Immuno-Sorbent Assay. (15 marks)

6. Describe clearly the following:

(a) The process of protein metabolism in parasites (7.5 marks)

b) Describe the following:

(i) Viral envelope (ii) Viral capsid. (7.5 marks)

Illustrate your answer with a well labeled diagrams where necessary.