



CRAWFORD UNIVERSITY
FAITH CITY IGBESA, OGUN STATE
2023/2024 RAIN SEMESTER EXAMINATION
COLLEGE: NATURAL AND APPLIED SCIENCES
DEPARTMENT: BIOLOGICAL SCIENCES
PROGRAMME: BIOCHEMISTRY
COURSE CODE: BCH 425
COURSE TITLE: BIOCHEMISTRY OF VIRUSES AND PARASITES
UNIT 2 STATUS: REQUIRED TIME: 2hrs
INSTRUCTIONS: Answer Four Questions Only.

1. (a) Define clearly the following (i) a parasite (ii) a virus (5 marks)
(b) Write a detailed note on the definitive properties of a virus (10 marks)
2. How would you detect a viral antigen in a given sample using Enzyme Linked Immuno-Sorbent Assay? (Illustrate your answer with diagrams) (15 marks)
3. (a) Explain clearly ; seven different ways by which parasites can evade the host immune system. (7.5 marks)
(b) Enumerate the various advantages of using continuous cell lines. (7.5 marks)
4. (a) Describe clearly how parasites obtain nutrients from a competent host (7.5 marks)
(b) Differentiate between Ectoparasites and Endoparasites (7.5 marks)
(a) Enumerate five antiparasitic agents and their target diseases (7.5 marks)
(b) State the five different cell- lines used in the experimental growth of viruses (7.5marks)
6. (a) Describe in detail, the "One –Step growth cycle" of a virus (7.5 marks)
(b) Discuss elaborately, the process of Protein Metabolism in malaria parasite (7.5 marks)