



CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE

2017/2018 HARMATTAN SEMESTER EXAMINATIONS

COLLEGE: NATURAL AND APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

PROGRAMME: BIOCHEMISTRY

COURSE CODE: BCH 425

COURSE TITLE: BIOCHEMISTRY OF VIRUSES AND PARASITES

STATUS: REQUIRED.

UNIT:2

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

TIME: 2HOURS

- (a) Describe a virus including its definitive properties.
(b) How can viral replication be controlled?
- (a) Explain five mechanisms employed by the parasite to evade the host immune system.
(b) Describe clearly the structure of parasite membrane (illustrate your answer with a diagram).
- (a) Describe the production, uses and classes of interferon.
(b) Explain clearly the process of viral multiplication in a susceptible host.
- (a) Describe clearly how parasites obtain their nutrients from a competent host.
(b) Write short notes on anyone of the following (i) Endoparasite (ii) Ectoparasite. Give one example of either.
- (a) Describe clearly the metabolism of carbohydrates in parasites.
(b) Explain the following: (i) Parasitism (ii) mutualism (iii) Commensalism (iv) Phoresis (v) protelean parasite.
- (a) Describe how viruses can be detected in a given sample using Enzyme – Linked immunosorbent assay. Support your answers with diagrams.
(b) Enumerate at least five antiparasitic agents and their target Diseases.