



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
DEPARTMENT OF BIOLOGICAL SCIENCES
2024 1 EXAMINATION

COURSE CODE: BIO 411
COURSE TITLE: PARASITOLOGY
CREDIT UNIT: 2 UNITS
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY TWO OTHERS.

Q1

- a. Explain the term 'Disability Adjusted Life Year'.
(6marks)
- b. Justify the scope of parasitology.
(6marks)
- c. With appropriate example, provide the types of motile organelles in protozoan
(9marks)
- d. List and explain the three (3) types of commensalism.
(9marks)

Q2

- a. Explain Homospecific/intraspecific/ homogenetic form of association.
(5marks)
- b. Write on the general taxonomy of helminths and their biology (characteristics features).
(15marks)

Q3

- a. What is Protozoan? (2marks)
- b. With the aid of appropriate diagrams, describe the life cycle of *Plasmodium*.
(18marks)

Q4

- ai. Outline the concept of parasitic disease transmission. **4marks**
- ii. List the extrinsic factors or variables that determines disease transmission and patterns.
4marks
- iii. List the demographic factors for disease manifestation in a definitive host. **4marks**
- b. Outline the aims of epidemiology. **8marks**

Q5

- 5a. Define parasitology **2marks**
- b. Using Malaria as an example, explain the factors that increases the burden of diseases over time? **5marks**
- c. Explain the economic implication(s) associated with a disease. **7marks**
- d. State the pathogenicity, epidemiology and management of acanthocephala. **6marks**