



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science
DEPARTMENT OF BIOLOGICAL SCIENCES
2024_2 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. Itemize six (6) fields of parasitology. (6marks)
- b. Explain the characteristics of Arthropods. (6marks)
- c. Enumerate eight (8) aims of epidemiology. (8marks)
- d. Write notes on leeches on the following;
(10marks)
 - i. Taxonomy
 - ii. Life cycle
 - iii. Pathogenicity
 - iv. Epidemiology and management

Q2

- a. Itemize the different criteria for categorizing parasites
(2marks)
- b. With the aid of an annotated diagram describe the life cycle of a named acanthocephalans parasite.
(18marks)

Q3

- a. Explain the biology (characteristic features) and pathogenicity of protozoan.
(5marks)
- b. Discuss any three (3) of the followings
(15marks)
 - i. Host-parasite interaction/relationships
 - ii. Host parasite selection
 - iii. Host parasite specificity
 - iv. Host parasite co-evolution

Q4

a. Write notes on nematodes under the followings;

(10marks)

- i. Taxonomy
- ii. Biology (characteristic features)
- iii. Life cycle
- iv. Pathogenicity

b. Explain the Disability Adjusted Life Years (DALYs) of Malaria according to WHO 2002 under the following:

(10marks)

- i. TDR disease category
- ii. DALYs (hundreds of thousands)
- iii. Deaths (thousands)
- iv. Population at risk (million)
- v. Number of endemic countries
- vi. Number of infected prevalence

Q5

a. Outline the various vector control tools and measures in combating parasitic diseases caused by

Vectors (6 marks)

b. The taxonomy of the Protozoa is primarily based on the presence/absence and the type of motile organelles. In a tabular form, make a list of:

- i. The resulting classification
- ii. The type of locomotory organelle, and
- iii. An example of a parasite in each group

(12 marks)