



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja**  
**Faculty of Science**  
**Department of Biological Sciences**  
**2025\_1 EXAMINATION...**

**BIO411: Parasitology**

**Time: 2½ Hours**

**Credit Unit: 3**

**Instruction: Attempt FOUR (4) questions only. QUESTION 1 is compulsory.**

**QUESTIONS**

1. (a) Write short notes on the following:
  - (i) Causal web (2 marks)
  - (ii) host-parasite co-evolution (4 marks)
  - (iii) list the management procedures of Acanthocephalans (3marks)(b) List any **six**(6) branches of Parasitology (6marks)  
(c) List the determinants of disease distribution and patterns (4marks)  
(d) List **six** (6) characteristics of Trematodes (6marks)  
(e) List the classes of Nematodes (2 marks)  
(f) What is the function of suckers in Leeches (1mark)  
(g) List criteria for categorization of parasites (2marks)
2. (b) List six (6) characteristics of Arthropods (6marks)  
(c) Write notes on Mutualism (7marks)  
(d) Outline lifecycle of Leeches (7marks)
3. (a) List the stages of life cycle of a typical protozoan (6marks)  
(b) Based on life cycle, outline differences between Nematodes and Cestodes (4 marks)  
(c) Define Epidemiology and list eight aims of Epidemiology (10marks)
4. (a) list stages of life cycle of *Schistosoma* species (10 marks)  
(b) List the different types of parasitic hosts (7marks)  
(c) List three types of heterospecific relationships (3marks)
5. (a) List the possible hosts involved in life cycle of Acanthocephalans (5 marks)  
(b) What is the difference between heirlooms and souvenirs (3 marks)  
(c) Who are the protozoans, list Eight protozoans of medical importance (12 marks)
6. (a) Write short notes on Biology of Cestodes (8 marks)  
(b) Outline the tools used for description of Epidemiology (10marks)  
(c) List factors that affect parasite specificity (2marks)