



# NATIONAL OPEN UNIVERSITY OF NIGERIA

National Open University of Nigeria

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja

Faculty of Science

Department of Biological Sciences

2025\_2 EXAMINATIONS

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## BIO310: Protozoology

Time: 2 Hours

Credit Units: 2

Instruction: Attempt THREE (3) questions only. QUESTION 1 is compulsory

- Q1. a. Outline the treatment and control measures for *Giardia* infection. (10 marks)
- b. Explain the clinical symptoms of sleeping sickness? (8 marks)
- c. Highlight six (6) the General Characteristics of Apicomplexa (6 marks)
- d. With appropriate examples, enumerate the various modes of protozoans' movement with examples (6 marks)
- Q2. Write short notes on the following:
- a). Symptoms of Toxoplasmosis (10 marks)
- b). Morphology of *Toxoplasma* parasite (4 marks)
- c). Diagnosis of *Giardia* (6 marks)
- Q3. a. Differentiate between Hypopylaria and Peripylaria in Leishmania (6 marks)
- b. Discuss the life cycle of *Toxoplasma gondii* (14 marks)
- Q4 a. Write a concise essay on the life cycle of *Plasmodium falciparum*. (12 marks)
- b. Enumerate four (4) characteristics of Leishmania (8 marks)
- Q5. a. Examine the epidemiology of Chagas' disease (6 marks)
- b. Identify the four (4) Plasmodium species responsible for causing malaria in humans (4 marks)
- c. Explain the treatment and control measures for Chagas' disease (10 marks)