



NATIONAL OPEN UNIVERSITY OF NIGERIA

National Open University Of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science

OCTOBER/NOVEMBER 2016 EXAMINATION

COURSE CODE: BIO 310
COURSE TITLE: PROTOZOOLOGY
TIME ALLOWED: 2 Hours

INTRUCTION: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER THREE QUESTIONS.

- 1.a. Explain the process of replication in Apicomplexan parasite (10marks)**
- b. Outline five general characteristics of the phylum Apicomplexa (10marks)**
- c. Mention two apicomplexan parasites that are of medical importance (2marks)**
- d. Mention six organelles found in the structure of protozoans (3marks)**

- 2a. Name five species of Entamoeba that infects man and their location in the body of man or of other vertebrates (5marks)**
- b. i. State the major parasite responsible for amebic dysentery; (1mark)**
- ii. What are the acute symptoms of amebic dysentery? (1mark)**
- iii. What are the treatments for amebic dysentery? (1mark)**
- c. Name the disease caused by Giardia; its symptoms; pathology and treatment (7marks)**

- 3a. Briefly, describe the epidemiology, morphology and the life cycle of Trichomonas vaginalis (9marks)**

b. Mention the disease caused by *Trichomonas vaginalis* **(2marks)**

c. What are the symptoms and treatments of the disease caused by *Trichomonas vaginalis*? **(4marks)**

4a. Name five blood protozoa that are of major biological/medical significance **(5marks)**.

b. Outline the morphology and life cycle of a trypanosome **(10marks)**.

5. a. Describe the characteristics of the following *Plasmodium* species:

i. *Plasmodium falciparum* **(5marks)**

ii. *Plasmodium vivax* **(5marks)**

b. State **five** characteristics of Mosquito that makes it an efficient vector of human malaria parasite **(5marks)**

6. a. Mention **one** disease caused by a *Babesia* parasite **(1mark)**.

b. Outline the symptoms, treatment and control of this disease **(6marks)**.

c. Describe the life cycle of a toxoplasma **(8marks)**.