

NATIONAL OPEN UNIVERSITY OF NIGERIA

**National Open University Of Nigeria**

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

 Faculty of Sciences

**NOVEMBER 2018\_2 EXAMINATION**

**COURSE CODE: BIO 310**

**COURSE TITLE: PROTOZOOLOGY**

**CREDIT UNIT: 2**

**TIME: 2 HOURS**

**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS**

Q1a. Name five species of Entamoeba that infects man or vertebrates 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)

d. Mention three apicomplexan parasites that are of medical importance (3marks)

e. Mention seven organelles found in the structure of protozoans (7marks)

Q2a. Define the following terms:

1. Host **(1mark);**
2. Definitive host **(1mark);**
3. Intermediate host **(1mark);**
4. Reservoir host (**1mark);**
5. Vector **(1mark).**

b. Explain five general characteristics of the phylum Apicomplexa. (10marks)

Q3a. 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)

Q4a. Name five blood protozoa that are of major biological/medical significance (5marks).

b. Describe the life cycle of a *toxoplasma gondii* (10marks).

Q5a. State five characteristics of the following Plasmodium species:

 i. Plasmodium falciparum (5marks)

 ii. Plasmodium vivax (5marks)

 b. Outline the symptoms, treatment and control of Babesiosis disease (5marks).