



NATIONAL OPEN UNIVERSITY OF NIGERIA

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

JULY 2017 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 **(5marks)**
 - b. Outline **five** general characteristics of the phylum Apicomplexa **(5marks)**
 - c. Mention **two** apicomplexan parasites that are of medical importance **(2marks)**
 - d. Mention **six** organelles found in the structure of protozoans **(3marks)**
 - e. Mention **one** disease caused by a Babesia parasite **(1mark)**.
 - f. Outline the symptoms, treatment and control of this disease **(6marks)**.
 - g. Describe the life cycle of a toxoplasma **(8marks)**.
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- 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? **(1mark1)**
 - 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)**