



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
MARCH/APRIL 2016 EXAMINATION**

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: BIO310
COURSE TITLE: PROTOZOOLOGY

TIME ALLOWED: 2 Hours

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

1a. Define the following terms:

- i. Host **(1mark)**;
- ii. Definitive host **(1mark)**;
- iii. Intermediate host **(1mark)**;
- iv. Reservoir host **(1mark)**;
- v. Vector **(1mark)**.

- b. Outline **five** general characteristics of the phylum Apicomplexa **(10marks)**
- c. Mention **two** apicomplexan parasites that are of medical importance **(4marks)**
- d. Mention **six** organelles found in the structure of protozoans **(6marks)**

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)**.