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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS**

**SEPTEMBER/OCTOBER 2015 EXAMINATION**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**COURSE CODE: BIO 310**

**COURSE TITLE: PROTOZOOLOGY**

**TIME ALLOWED: 2 Hours**

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

1a. Define the following terms:

1. Host **(1mark);**
2. Definitive host **(1mark);**
3. Intermediate host **(1mark);**
4. Reservoir host**(1mark);**
5. 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 n 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? **(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 Trichomonasvaginalis**(9marks)**

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

c. What are the symptoms and treatments of the disease caused by Trichomonasvaginalis? **(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).**