



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI -
ABUJA
FACULTY OF SCIENCE
APRIL, 2019 EXAMINATION

BIO 310 PROTOZOLOGY - 2 UNITS

INSTRUCTION: Answer Question ONE and any other THREE Questions

TIME ALLOWED - 2 HOURS

1a. Explain the terms:

- (i) Definitive host
- (ii) Intermediate host
- (iii) Reservoir host
- (iv) Vector **(4 marks)**

b. What are the general characteristics of the Apicomplexa? **(4 marks)**

c. Differentiate between a trophozoite and a sporozoite **(2 marks)**

d. Give the other name of each of the following diseases:

- (i) African trypanosomiasis
- (ii) American trypanosomiasis
- (iii) Kala azar **(3 marks)**

e. What are the causative agents of:

- (i) Malaria
- (ii) African trypanosomiasis
- (iii) American trypanosomiasis? **(3marks)**

f. With the aid of a diagram, describe the morphology of the trypanosome (9 marks)

2a. Write short notes on the symptoms of:

- i. African trypanosomiasis **(7 ½ marks)**
- ii. Malaria **(7 ½ marks)**

3. Describe (i) The morphology **(12 marks)** and (ii) the life cycle of *Giardia lamblia* **(3 marks)**

4. How is malaria transmitted from person to person? **(15 marks)**

5. For each of the following parasites, state its **definitive host, location in the definitive host and vector or method of transmission**

- i. *Babesia bigemina*
- ii. *Babesia microti*

- iii. *Entamoeba coli*
- iv. *Entamoeba gingivalis*
- v. *Entamoeba histolytica*
- vi. *Giardia lamblia*
- vii. *Leishmania donovani*
- viii. *Toxoplasma gondii*
- ix. *Trychomonas vaginalis*
- x. *Trypanosoma brucei*

1½ mark x 10 = 15 marks