



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI
ABUJA
FACULTY OF SCIENCES
Department of Pure and Applied Sciences
OCTOBER/NOVEMBER, 2019 EXAMINATION

COURSE CODE: BIO 310

COURSE TITLE: PROTOZOOLOGY

CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTIONS 1 AND ANY OTHER THREE.

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)**
and
- II. Malaria **(7 ½ marks)**

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

4. Discuss how malaria is 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