



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI ABUJA
FACULTY OF SCIENCE
Department of Pure and Applied Sciences
2023_2 EXAMINATIONS

COURSE CODE: BIO 310

COURSE TITLE: PROTOZOOLOGY

CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTIONS 1 AND ANY OTHER THREE QUESTIONS

- (1)a. Briefly explain a 'host' **(2marks)**
b. Outline the difference between trophozoite and sporozoite. **(2marks)**
c. Explain briefly the disease *Isospora belli* **(5 marks)**
d. Compare the two distinctive subcellular organelles of Apicomplexa parasites **(6marks)**
e. Elucidate on the various mode of movement of protozoans giving specific examples. **(10marks)**
- (2)a. State the five major protozoans of biological/medical importance. **(5 marks)**
b. Briefly outline the vectors of human malaria. **(10 marks)**
- (3) a. List the four plasmodium species responsible for human malaria. **(4 marks)**
b. Highlight the four special features of *Plasmodium ovale*. **(4 marks)**
c. Enumerate the clinical symptoms of the sleeping sickness. **(7 marks)**
- 4) a. briefly explain the Epidemiology of *Trypanosomes*. **(4 marks)**
b. Highlight the step involved in the life cycle of *Toxoplasma gondii*. **(11 marks)**
- 5) Highlight the special features in the life cycle of the species of Plasmodium that cause malaria **(15marks)**