



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)