

NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI ABUJA FACULTY OF SCIENCE Department of Pure and Applied Sciences 2021_2 EXAMINATION

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' b). Outline the difference between trophozoite and sporozoite. c). Explain briefly the disease Isospora <i>belli</i> d). Compare the two distinctive subcellular organelles of Apicomplexa parasites e). Elucidate on the various mode of movement of protozoans giving specific 	(2marks) (2marks) (5 marks) (6marks)
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.b). Highlight the four special features of <i>Plasmodium ovale</i>.c). Enumerate the clinical symptoms of the sleeping sickness.	(4 marks) (4 marks) (7 marks)
4) a. briefly explain the Epidemiology of <i>Trypanosomes</i>.b. Highlight the step involved in the life cycle of <i>Toxoplasma gondii</i>. (11 mar	(4 marks) ks)

5) Highlight the special features in the life cycle of the species of Plasmodium that cause malaria (15marks)