

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

Department of Pure and Applied Sciences SEPTEMBER, 2020_1 EXAMINATION

COURSE CODE: BIO 310

COURSE TITLE: PROTOZOOLOGY

CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTIONS 1 AND ANY OTHER THREE.

(1) a. Outline the General Characteristics of Apicomplexa. (3 marks) b. Enumerate the various mode of movement of protozoans giving examples. (10 marks) c. What do you understand by trophozoite and sporozoite. (2 marks) d. Summarize the special features in the life cycle of *Plasmodium falciparum*. (10 marks) 2a. Outline at least five characteristics of Leishmania. (5 marks) b). Differentiate between Hypopylaria and Peripylaria in Leishmania. (6 marks) c). Outlines the pathological effects of Chagas disease (4 marks) 3a. Highlight the four plasmodium species responsible for human malaria. (4 marks) b). Discuss the life cycle of Plasmodium parasite. (11marks) 4a. illustrate diagrammatically, various stages of the three common species of plasmodium (6 marks) infecting man. b). Write consiely on the vectors of human malaria. (9 marks) 5a. Write short notes on the following:

i). Symptoms of Toxoplasma.
ii). Morphology of Toxoplasma.
iii). Diagnosis of Giardia
(2 marks)
(3marks)