



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI ABUJA
FACULTY OF SCIENCE
Department of Biological Sciences
2022_2 EXAMINATION

COURSE CODE: BIO310

COURSE TITLE: PROTOZOOLOGY

CREDIT: 2 UNITS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTIONS 1 AND ANY OTHER TWO (2) QUESTIONS.

- 1a. Highlight the two clinical forms of African trypanosomiasis. (2 marks)
b. Mention one disease caused by a Babesia parasite (1mark)
c. Outline the symptoms, treatment and control of this disease (6marks)
d. List the five major blood protozoans of biological/medical importance. (5 marks)
e. Outline at least five (5) characteristics of Leishmania parasite. (5 marks)
f. Discuss the life cycle of *Trypanosoma cruzi*. (5 marks)
g. Discuss the Morphology and life cycle of *Trichomonas vaginalis*. (6 marks)
- 2a. Discuss the life cycle of Leishmania parasite. (8 marks)
b. Outline the steps involved in the life cycle of *Toxoplasma gondii*. (12 marks)
- 3a. Write short notes on the following:
(i). Epidemiology of plasmodium parasite. (4marks)
(ii). Morphology of plasmodium parasite. (4marks)
(iii) *Plasmodium falciparum* (4marks)
(iv) *Plasmodium vivax* (3marks)
b. List any five (5) true malarial parasites you know. (5 marks)
- 4a. Outline the symptoms of Babesia. (4 marks)
b. Briefly describe the morphology and life cycle of a trypanosome. (5 marks)
c. Mention the disease cause by Giardia; its symptoms; pathology and treatment (11 marks)
- 5a. Outline the two diagnosis of Malaria. (3 marks)
b. List four Intestinal and luminal protozoa significant to human health. (4 marks)
c. Briefly explain the *Isospora belli* (6 marks)
d. Discuss the life cycle of *Entamoeba histolytica*. (7 marks)