



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI ABUJA
FACULTY OF SCIENCE
Department of Pure and Applied Sciences
JANUARY, 2021 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. Define the following:

- i. A host
 - ii. Definitive host
 - iii. Intermediate host
 - iv. Reservoir host
 - v. Vector **(5marks)**
- b). Outline five characteristics of Leishmania parasite. **(3 marks)**
- c). Highlight any three (3) clinical diagnosis of Chagas disease **(3 marks)**
- d). Briefly explain the Epidemiology of *Trypanosomes*. **(4 marks)**
- e). Write concisely on the Diagnosis of Giardia **(4 marks)**
- f). Differentiate the two distinctive subcellular organelles of Apicomplexa parasites **(6marks)**
- 2). Write short note of the following:
- i). Diagnosis of Leishmania parasite **(3marks)**
 - ii). Pathology of Leishmania parasite **(3marks)**
 - iii). Treatment and Control of Leishmania parasite **(4marks)**
 - iv). Morphology of Plasmodium parasite **(5marks)**
- 3) a. Highlight the symptoms of Babesia. **(4marks)**
- b). Explain briefly the *Isospora belli* **(5marks)**
- c). Discuss the pathology and immunology to *Trypanosomes* **(6 marks)**
- (4). Write briefly on the following:
- i). Pathology and Immunology of Malaria **(6marks)**
 - ii). Treatment and control of Malaria **(4marks)**
 - iii). Life cycle of *Entamoeba histolytica*. **(5marks)**
- 5a). Highlight the clinical symptoms of the African trypanosomiasis? **(6 marks)**
- b). States the three symptoms of Leishmania. **(3 marks)**
- c). Outline the replication process in apicomplexan parasites **(6 marks)**