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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

v Vector

ii. Definitive host

iii. Intermediate host

iv. Reservoir host

v. vector	(Smarks)
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 <i>Trypanosomes</i> .	(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 <i>Trypanosomes</i>	(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)

(5marks)