

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTURIAL SCIENCES UNIVERSITY SPECIAL EXAMINATIONS FOR THE DEGREE OF BACHELOR OF

SECOND YEAR FIRST SEMESTER ACADEMIC YEAR 2020/2021 MAIN CAMPUS - REGULAR

BIOLOGICAL SCIENCES

COURSE CODE: SBI 3218

COURSE TITLE: PROTOZOOLOGY

EXAM VENUE: STREAM: (BIO)

DATE: EXAM SESSION:

TIME:

Instructions

- 1. Answer ALL questions in Section A (compulsory) and ANY TWO questions in Section B
- 2. Candidates are advised not to write on the question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

- 1. State three differences between mucocutaneous and visceral leishmaniasis. (3 marks)
- 2. Give six morphological characteristics of *Toxoplasma gondii* oocyst. (3 marks)
- 3. State three clinical syndromes associated with genus Acanthamoeba. (3 marks)
- 4. Give examples of six types of parasites. (3 marks)
- 5. Explain the three types of symbiotic relationships and give examples. (3 marks)
- 6. Outline six pathologies associated with *Trichomonas vaginalis*. (3 marks)
- 7. Explain pre-erythrocytic schizogony in plasmodium parasites. (3 marks)
- 8. State six morphological characteristics of Babesia trophozoites. (3 marks)
- 9. Explain three extra-intestinal pathologies associated with *Entamoeba histolytica*.

(3 marks)

10. Explain how you can control and prevent infection with protozoans. (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

- 11. Describe the epidemiology, morphology, lifecycle, diagnosis and control of trypanosomes. (20 marks)
- 12. Write an essay about *Giardia lamblia* focusing on its epidemiology, morphology, pathology and control. (20 marks)
- 13. Describe the pathogenesis of parasitic protozoa frequently found in immune-compromized individuals. (20 marks)
- 14. "Ecological niche of parasite determines the type sample to be collected for diagnosis". Discuss this statement giving examples.

(20 marks)