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UNIVERSITY EXAMINATIONS 2022/2023

SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION

AAP 3256: PARASITOLOGY II

DATE: APRIL 2023

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- a) Clearly define the following terms as used in parasitology
 - i. Trophozoite (2marks)
 - ii. Oncosphere (2marks)
 - iii. Schizogony (2marks)
 - iv. Bursa (2marks)
- b) List four morphological forms of the family Trypanosomatidae (4marks)
- c) List the routes of infection of *Toxocara canis* (4marks)
- d) Name the intermediate hosts of the following parasites
 - i. *Taenia solium* (1mark)
 - ii. *Taenia hydatigena* (1mark)
- e) Name three phases in the life cycle of *Eimeria sp.* (3marks)
- f) Describe the morphological features shared by genera of the Superfamily Ascaridida (4marks)
- g) Briefly describe the life cycle of *Babesia sp.* in the vertebrate host (5marks)

QUESTION TWO (20 MARKS)

- a) Briefly explain how adult cestodes obtain nutrients from host (3marks)
- b) Briefly describe the basic life cycle of trichostrongyle nematodes (7marks)
- c) Describe in detail the life cycle of *Eimeria sp.* in goats (10marks)

QUESTION THREE (20 MARKS)

- a) Describe the following metacestodes and give an example of each case
 - i. Cysticercus (3marks)
 - ii. Hydatid (3marks)
- b) Describe the morphology and life cycle of *Trichinella spiralis* (8marks)
- c) Describe the pathology of *Theileria parva parva* in the mammalian host (6marks)

QUESTION FOUR (20 MARKS)

- a) Compare and contrast the life cycle of *Fasciola hepatica* and *Dicrocoelium dendriticum* (10marks)
- b) Describe the most serious pathological consequences of infection with following parasites;
 - i. *Taenia solium* in man (3marks)
 - ii. *Haemonchus sp.* In sheep (4marks)
- c) Briefly describe the mode of transmission of *Trypanosoma sp.* (3marks)