



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2020/2021

SECOND YEAR, FIRST SEMESTER, SPECIAL/SUPPLEMENTARY EXAMINATION FOR
THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL HEALTH PRODUCTION

AAP 3203: PARASITOLOGY 1

DATE: AUGUST 2023

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Explain the following terms giving an example in each case:
- i) Intercellular parasite (2 marks)
 - ii) Reservoir host (2 marks)
 - iii) Complex life cycle (2 marks)
 - iv) Ectoparasites (2 marks)
- b) Name and briefly explain two types of vectors in Parasitology (4 marks)
- c) List FOUR peculiar characteristics of the phylum Arthropoda (4 marks)
- d) Name TWO diseases transmitted by the following ticks:
- i) *Amblyomma variegatum* (2 marks)
 - ii) *Rhipicephalus sanguineus* (2 marks)
- e) Describe the morphological features of Sarcoptes mites (5 marks)
- f) Briefly describe the generalized life cycle of fleas (5 marks)

QUESTION TWO (20 MARKS)

- a) Describe the life cycle of three host ticks (8 marks)
- b) Describe the morphology, life cycle and pathological significance of *Musca autumnalis* (12 marks)
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QUESTION THREE (20 MARKS)

Giving appropriate examples, discuss the effects of parasites on their hosts (20 marks)

QUESTION FOUR (20 MARKS)

- a) Describe the generalized life cycle of Diptera flies (10 marks)
- b) Giving appropriate examples, describe each of the following methods of ectoparasite control:
 - i) Trapping (5 marks)
 - ii) Sterile male technique (5 marks)