

CHUKA UNIVERSITY
RESIT EXAMINATION FOR CERTIFICATE OF ANIMAL HEALTH AND
PRODUCTION
ANHE 00123: PARASITOLOGY

SECTION A (*Answer all questions in this section.*)

30 Marks

1. Define the following as used in parasitology:
 - i) Paratenic host (1 Mark)
 - ii) Commensalism (1 Mark)
 - iii) Trans-ovarial transmission (1 Mark)
 - iv) Mange (1 Mark)
 - v) Myiasis (1 Mark)
 - vi) Pathenogenesis (1 Mark)
2. a) Outline at **TWO** diagnostic methods used to confirm protozoal infections in cattle (4 Marks)
b) Describe **FIVE** clinical signs exhibited by cattle as a result of East Coast Fever. (5 Marks)
3. Outline **TWO** zoonotic parasites found in domestic animals and describe their transmission routes. (4 Marks)
4. a) Describe the lifecycle of a two-host tick in livestock. (6 Marks)
b) Name **FIVE** diseases of economic importance transmitted by ticks in domestic animals. (5 Marks)

SECTION B (*Answer any TWO questions in this section.*)

40 Marks

5. a) Name the aetiology of Trypanosomiasis in cattle. (1 Mark)
b) Name **THREE** transmission routes for Trypanosomiasis in domestic animals. (3 Marks)
c) Describe **SIX** clinical signs observed in cattle affected by Trypanosomiasis. (12 Marks)
d) Outline **FOUR** control strategies of Trypanosomiasis in cattle farms. (4 Marks)
6. a). Evaluate the socio-economic impacts of parasitic diseases on beef value chains around East Africa. (10 Marks)
b). What strategies can be used to mitigate the impact of these diseases? (10 Marks)
7. A 200 poultry farm is seeking your guidance in handling a disease which has claimed 12 birds by the time of reporting. Upon examination, the birds are depressed and straining when

passing the droppings. There are also signs of haemorrhagic diarrhoea which is foul smelling and most of the birds are showing a matted perineum.

- a) What is the most likely parasitic disease affecting the birds? (4 Marks)
- b) Name any **FOUR** aetiological agents for the condition named above? (4 Marks)
- c) Describe **TWO** approaches you would use to confirm the above-named disease. (2 Marks)
- d) Describe **FIVE** control strategies you would advise the farmer to mitigate its future occurrence. (10 Marks)