



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURAL EDUCATION AND EXTENSION AND BACHELOR OF SCIENCE IN
ANIMAL SCIENCE
2ND YEAR 1ST SEMESTER 2018/2019 ACADEMIC YEAR
REGULAR

COURSE CODE: AAS 3212

COURSE TITLE: GENERAL PARASITOLOGY

EXAM VENUE: **STREAM: (BSc. Agricultural Education and Extension**
BSc. Animal Science)

DATE: **EXAM SESSION:**

TIME: 2 HOURS

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**
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SECTION A [30 MARKS]

Answer ALL questions in this section

1. Distinguish between infestation and infection in relation to parasitism. (3 marks)
2. Give any three general characteristics of parasites in phylum *Arthropoda*. (3 marks)
3. Outline three differences between soft ticks and hard ticks. (3 marks)
4. Briefly describe life cycle of *Culicoides* species. (3 marks)
5. State three morphological features of *Glossina* species and explain the public health and Veterinary importance of these flies. (3 marks)
6. Explain three forms of asexual reproduction exhibited by protozoa: (3 marks)

7. Name the coccidia species that affect cattle, pigs and dogs. (3 marks)
8. Name two *Anaplasma* species that affect domestic ruminants and briefly describe life cycle of these organisms..

9. *Histomonas* is a protozoan parasite of birds whose main host is the turkey. Briefly examine life cycle of this parasite and give two signs seen in affected birds. (3 marks)
10. Evaluate briefly the life cycle, clinical signs, treatment and control of *Thelazia*, the worm that infests eyes of domestic ruminants. (3 marks)

SECTION B [40 MARKS]

Answer ANY TWO questions from this section

11. Examine the aetiology, transmission, clinical signs and treatment of the following diseases:
 - a. Demodecosis in dogs (10 marks)
 - b. Infestation by *Notoedres* in cats. (10 marks)
12. *Haemonchus* is a nematode that commonly affects domestic ruminants. Describe its morphology, life cycle, economic importance, treatment and control. (20 marks)
13. Demonstrate an understanding of the morphology, life cycle, clinical signs, diagnosis, treatment and control of the dwarf dog tapeworm (*Echinococcus granulosus*). (20 marks)
14. Evaluate fascioliasis in domestic ruminants under the following headings:
 - a) Morphology and life cycle of the causative agent (10 marks)
 - b) Clinical signs, diagnosis, treatment and control of the infection (10 marks)