



EMBU UNIVERSITY COLLEGE
(A Constituent College of the University of Nairobi)

2015/2016 ACADEMIC YEAR
SECOND SEMESTER EXAMINATION

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
(AGRICULTURAL EDUCATION AND EXTENSION) AND BACHELOR OF
EDUCATION SCIENCE

AAS 204: PARASITOLOGY

DATE: APRIL 5, 2016

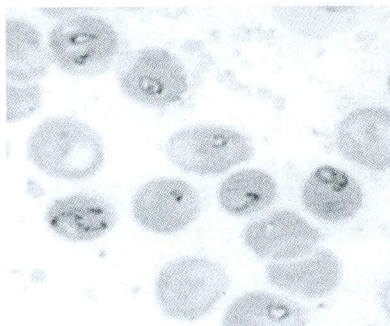
TIME: 08:30-10:30

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE

- Describe the various types of immunity mounted by hosts against parasites. (5 Marks)
- The dog is known to be 'Man's best Friend' hence human beings are in more intimate contact with dogs than any other animal. This contact, however, may be like 'a kiss of death' especially where dogs are not well taken care of! Using your knowledge in parasitology, justify these statements. (5 Marks)
- Discuss the morphological adaptations of parasites to their ways of life. (5 Marks)
- Discuss zoonoses. (5 Marks)
- The following photomicrograph was obtained from a blood smear prepared using blood from a cow suffering from a parasitic disease. Identify the parasite and state its clinical manifestations. (5 Marks)



f) Explain the pathogenesis of *Cysticercus bovis* (5 Marks)

QUESTION TWO

a) Differentiate direct and indirect lifecycles (8 Marks)

b) Describe the lifecycle of *Fasciola hepatica* (12 Marks)

QUESTION THREE

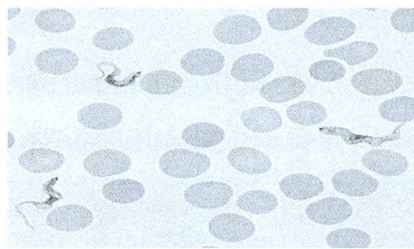
a) Describe the pathogenesis of *Anaplasma marginale* (8 Marks)

b) Widespread use of irrigation systems is being encouraged as a way of ensuring food security especially in the developing countries. This is eventually pulling the concerned countries from the perils of constant famine to self-sustainability in terms of food supply. If not well monitored, however, the ponds created by flooding irrigation systems can be major health hazards. In reference to Schistosomiasis, justify this fact (12 Marks)

QUESTION FOUR

a) Discuss the pathogenesis and diagnosis of *Haemonchus contortus* infection (10 Marks)

b) The following is a photomicrograph obtained from a blood smear of a human suffering from a parasitic disease. Discuss the two pathogenic forms of the parasite (10 Marks)



QUESTION FIVE

a) Discuss the lifecycle of *Dermatobia hominis* (10 Marks)

b) Discuss ticks as vectors of diseases in animals (10 Marks)

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