



FACULTY OF SCIENCE

DEPARTMENT OF ZOOLOGY

MODULE: **ZOO2A01**
 (GENERAL PARASITOLOGY)

CAMPUS: **APK**

EXAM **SUPPLEMENTARY– June 2016**

DATE: 25 July 2016

ASSESSOR:

MODERATOR:

DURATION: 2 Hours

TIME:

Dr L. Neethling

Dr L. Mokae

Total Marks: 100

NUMBER OF PAGES: 3 Pages (Including this page)

INSTRUCTIONS: Answer all the questions.

QUESTION 1

African sleeping sickness is only manageable by arsenical drugs and the prognosis is poor once the central nervous system is involved. Discuss this statement by identifying the parasite (1), its transmission (1), the symptoms and pathogenesis (6), and how this parasite manages to survive in the host (7).

[15 marks]

QUESTION 2

Describe the life cycle of *Ichthyophthirius multifiliis* with the aid of sketches.

[10 marks]

QUESTION 3

On a camping trip, you purchase meat from a farmer who informs you that there have been outbreaks of *Taenia saginata* and *T. solium* within the region, but he insists that only his livestock is safe. As an experienced parasitologist, report the pathogenesis of these parasites to him and provide him with a preventative method should he sell to other people.

[10 marks]

QUESTION 4

You are buying a guest house from a person who had the guest house standing vacant for 18 months. Using your knowledge of parasitology explain how you will go about cleaning the house and furniture before you re-open the business. Explain which parasites may be contracted and give a short but convincing explanation of the expected pathology if you should take short cuts. Refer to at least 5 (five) taxonomic groups

[15 marks]

QUESTION 5

List the effect of ticks and mites and their hosts and provide examples of each.

[10 marks]

QUESTION 6

Discuss the adaptations present in *Lernaea* with regard to the morphology and life strategies

[10 marks]

QUESTION 7

Discuss the pathology of *Enterobius vermicularis* (12). Indicate how the life cycle of the parasite co-ordinates with the pathology (6). Describe treatment of patients with an infection (2).

[20 marks]

QUESTION 8

Describe the adaptations towards a parasitic existence that is expressed by *Cimex lectularis*. Describe both the basic morphological adaptations (2), including mouthparts (5) as well as life strategies (3)

[10 marks]

TOTAL 100

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