



**FACULTY OF SCIENCE**

**DEPARTMENT OF ZOOLOGY**

<b>MODULE</b>	<b>ZOO2A10</b>
<b>CAMPUS</b>	<b>APK</b>
<b>EXAM</b>	<b>6 JUNE 2019</b>

**DATE:**

**SESSION:**

**ASSESSOR(S):**

**Dr L Neethling**

**Prof A Oldewage**

**INTERNAL MODERATOR:**

**Prof F Durand**

**DURATION: 2 Hours**

**MARKS: 100**

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**NUMBER OF PAGES: 2**

**INSTRUCTIONS:**

**Please use one colour book for Section A and the other colour book for Section B**

## **SECTION A**

**Please use a separate book for this section**

### **QUESTION 1**

Discuss the process of acquired immunity, with emphasis on antibody mediated immunity. Also explain how antibodies mediate the destruction of antigens.

**[12]**

### **QUESTION 2**

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 describe how this parasite manages to survive in the host (7).

**[15]**

### **QUESTION 3**

Describe the lifecycle of *Entamoeba histolytica*. How would you confirm this infection in a patient? How is it treated?

**[15]**

### **QUESTION 4**

With the aid of sketches, describe the lifecycle of *Diplozoon* sp.

**[8]**

**SECTION A TOTAL: 50**

## **SECTION B**

**Please use a separate book for this section**

### **QUESTION 5**

Discuss *Strongyloides stercoralis* with reference to the following: biology (3), epidemiology (4), pathogenesis (8), diagnosis (3) and treatment (2).

**[20]**

### **QUESTION 6**

Parasitic Copepoda have adapted to their existence by changing both their morphology and biology. Please discuss this statement by referring to at least three examples you have studied.

**[15]**

### **QUESTION 7**

Describe the lifecycle of *Pediculus humanis* with the aid of drawings (10). Discuss how the parasite maintains its position on the host during all life stages (5).

**[15]**

**SECTION B TOTAL: 50**

**TOTAL section A and B: 100**