



**FACULTY OF SCIENCE**

**DEPARTMENT OF ZOOLOGY**

<b>MODULE</b>	<b>ZOO2A10</b>
<b>CAMPUS</b>	<b>APK</b>
<b>EXAM</b>	<b>JULY 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**

The human body is remarkable in its ability to protect itself. Describe innate immunity with the aid of sketches.

[20]

### **QUESTION 2**

A patient has been diagnosed with hydatidosis. Explain what the likely cause for this infection is (2). Name the parasite that causes it (1). Discuss treatment options (3), and with the aid of diagrams, describe the lifecycle of the parasite (9).

[15]

### **QUESTION 3**

Describe the lifecycle by *Entamoeba histolytica* and refer to the pathology inflicted by this parasite.

[15]

**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**

Describe the lifecycle of *Sacculina*, describe the various effects on the host.

[15]

### **QUESTION 7**

Describe the life cycle of *Anopheles fenustus* with the aid of drawings (10). Discuss how the parasite adapted for its parasitic lifestyle (5).

[15]

**SECTION B TOTAL: 50**

**TOTAL section A and B: 100**