**COURSE CODE: B204 (S) 2007** 

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# **UNIVERSITY OF SWAZILAND**

# **SUPPLEMENTARY EXAMINATION PAPER 2007**

TITLE OF PAPER:

**INVERTEBRATE ZOOLOGY** 

**COURSE CODE**:

**B204** 

TIME ALLOWED:

**THREE HOURS** 

INSTRUCTIONS

1. THIS PAPER HAS SIX (6) QUESTIONS

4. ANSWER ANY FOUR (4) QUESTIONS

5. WHEREVER POSSIBLE ILLUSTRATE YOUR

ANSWERS WITH LARGE CLEARLY

LABELLED DIAGRAMS

**SPECIAL REQUIREMENTS:** 

**NONE** 

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATORS

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## **QUESTION 1**

What is the importance of sexual and asexual reproduction? Write a concise essay on the various modes of reproduction observed among invertebrates.

[Total = 25 marks]

### **QUESTION 2**

i. Describe common adaptations to parasitic lifestyles of named invertebrates parasites.

(15)

ii. Describe the effects of some parasites on host behaviour and benefits to the parasite.

(10)

[Total = 25 marks]

## **QUESTION 3**

Discuss in detail how protozoans gain nutrition, move and reproduce.

[Total marks = 25]

### **QUESTION 4**

Using named examples, define and explain the importance of the following in organisms:

- i. Crystalline style
- ii. Peritrophic membrane
- iii. Typhlosole
- iv. Cuticle
- v. Stomodeum

[Total = 25 marks]

### **QUESTION 5**

i. Using convergent evolution as an example, explain why similarities in structure does not necessarily indicate common ancestry. (10)

ii. Nautilus is considered to be a modern day relict. Discuss this statement in relation to the survival of these organisms. (15)

[Total = 25 marks]

## **QUESTION 6**

Using examples, write short notes on the following:

- i. Paedomorphosis
- ii. Metamorphosis
- iii. Hermaphroditism

[Total = 25 marks]