

**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER 2011**

**TITLE OF PAPER :**      **INVERTEBRATE ZOOLOGY**

**COURSE CODE :**      **B204**

**TIME ALLOWED :**      **THREE HOURS**

**INSTRUCTIONS :**

1.      **THIS PAPER HAS TWO SECTIONS, A AND B**
2.      **SECTION A IS COMPULSORY**
3.      **ANSWER ANY THREE (3) QUESTIONS FROM SECTION B**
4.      **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**

**SECTION A (Compulsory)**

Using named examples, discuss the ecological and economic significance of the invertebrates.

[Total marks = 40]

**SECTION B**

Answer any **three (3)** questions

**QUESTION 2**

Discuss in detail the features which distinguish the Echinodermata

[Total marks = 20]

**QUESTION 3**

Discuss in detail the economic and social problems caused by each of the following parasites:

- i. *Trypanosoma brucei*
- ii. *Ancyclostoma duodenale*
- iii. *Plasmodium vivax*
- iv. *Schistosoma mansoni*

[Total = 20 marks]

**QUESTION 4**

Define the following and state their advantages:

- i. cephalisation
- ii. paedomorphosis
- iii. epitoky
- iv. moulting
- v. lophophore

[Total = 20 marks]

**QUESTION 5**

Compare and contrast the variation in lifestyle and reproduction observed in the gastropods.

[Total = 20 marks]

**QUESTION 6**

Write short notes on the following:

- i. Rotifera
- ii. Tardigrada

[Total = 20 marks]