COURSE CODE: B204 (S) 2005

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2005

TITLE OF PAPER

INVERTEBRATE ZOOLOGY

COURSE CODE:

B204

TIME ALLOWED:

THREE HOURS

INSTRUCTIONS: 1.

ANSWER ANY <u>FOUR</u> QUESTIONS

2. EACH QUESTION CARRIES TWENTY FIVE (25) MARKS

3. ILLUSTRATE YOUR ANSWERS WITH LARGE AND CLEARLY LABELLED DIAGRAMS WHERE APPROPRIATE

SPECIAL REQUIREMENTS:

NONE

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

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Question 1

- i. Briefly describe the various types of excretory organs observed in invertebrates. (15)
- ii. Describe sexual reproduction as observed in ciliates. (10)

Question 2

- i. Distinguish between the trochophore and veliger larvae, stating their evolutionary significance. (10)
- ii. Briefly discuss adaptive radiation with respect to feeding in polychaetes. (15)

 [Total = 25 marks]

Question 3

- a. With the aid of diagrams, describe the pelagic zone of the marine habitat and organisms living within it. (15)
- b. Briefly discuss possible means by which animals distribute food to all cells. (10)

[Total marks = 25]

Question 4

Using named examples, define and explain the significance of the following to organisms:

- i. Cephalisation
- ii. Convergent evolution
- iii. Courtship behaviour
- iv. Polymorphism
- v. Paedomorphosis

[Total = 25 marks]

Question 5

Discuss how metazoan parasites are adapted to their lifestyle.

[Total = 25 marks]

Question 6

Discuss in detail the importance of invertebrates to mankind.

[Total = 25 marks]