COURSE CODE: B204 (S) 2008

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2008

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

a. Outline the mode of operation of the water vascular system in the Asteroidea and enumerate its functions. (15)

b. Outline stages in the ontogeny of a metazoan organism.

(10)

[Total = 25 marks]

QUESTION 2

"Invertebrate research is of critical value in the agricultural and medical fields". Using named examples, discuss this statement.

[Total = 25 marks]

QUESTION 3

Write an essay on the protozoans as agents of economically significant diseases in Swaziland.

[Total marks = 25]

QUESTION 4

Discuss the structure and function of the water vascular system and variation thereof within the echinoderms.

[Total = 25 marks]

QUESTION 5

- i. Explain how the symmetry observed in the echinoderms and cnidarians demonstrates convergent evolution. (10)
- ii. Discuss in detail products of evolution

(15)

[Total = 25 marks]

QUESTION 6

Discuss variation in habitats as observed in marine and freshwater systems as well as the lifestyle of organisms in these habitats.

[Total = 25 marks]