**COURSE CODE: B112 (S) 2007** 

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## **UNIVERSITY OF SWAZILAND**

## **SUPPLEMENTARY EXAMINATION PAPER 2007**

TITLE OF PAPER:

INTRODUCTORY ZOOLOGY

**COURSE CODE** 

B112

:

**TIME ALLOWED:** 

**THREE HOURS** 

**INSTRUCTIONS**:

- 1. THIS PAPER HAS TWO SECTIONS, A AND B
- 2. USE ONE (1) ANSWER BOOKLET FOR EACH SECTION
- 3. IN SECTION A, ANSWER QUISTION 1
  (COMPULSORY) PLUS ANY OTHER
  QUESTION; IN SECTION B, ANSWERTWO
  QUESTIONS.
- 4. EACH QUESTION CARRIES TWENTY FIVE (25) MARKS
- 5. WHEREVER POSSIBLE ILLUSTRATEYOUR 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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## SECTION A

Question1 (Compulsory)
1. Communities are made up of
2. What is the biosphere?
3. Name two types of biomes.
4. Any community of interacting organisms is known a(n)
5. Each step of the food chain is known as a
6. Name an interaction where one organism benefits while there is no effect on the other.
7. Autotroph means
8. Heterotrophic feeding by absorption is known as
feeding.
9. Organisms which hardly ever move and if they do, they do so very slowly are said to
be
10selected species usually have many offspring.
11. The placing of organisms into unique recognisable categories based on their
characteristics is known as
12. Name a structure which is absent in plant cells but present in animals cells
13. Name two locomotory organelles observed in the Protista.
14. Name an organism with a hydrostatic skeleton.
15. Name one advantage given by the exoskeleton.
16. In chordates, the hollow dorsal nerve chord later develops into the
17. Which organisms have the swimbladder?
18. In mammals, what is the function of the diaphragm?
19. Marsupialia use the to provide for
their young internally.
20. The observable traits in an individual are known as its
21. In heterozygotes, the full expression of both alleles is due to

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22. Which types of mutations are inherited by offspring?		
23. Name factor which needs to be met for gene frequencies to remain unchanged.		
24. What is the first step towards the formation of a new species?		
25. Microevolution occurs over	periods of time.	
	[Total = 25 marks]	
Question 2		
a. Briefly discuss how organisms can be divided based on their prin	mary source of energy. (15)	
b. Discuss how organisms can be distributed within their habitats an each of the patterns described.	` ,	
Question 3		
<ul><li>a. What evidence is used for evolution?</li><li>b. What is the cytoskeleton? Describe its structure and function.</li></ul>	(15) (10) [Total = 25 marks]	

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#### **SECTION B**

### QUESTION 4.

Write notes on the following:

i) Loop of Henle' (8 Marks)
ii) Functions of the liver (8 Marks)
iii) Purkinje fibres (5 Marks
iv) Ostia (4 marsks)

[Total Marks = 25]

# QUESTION 5.

What role is played by hormones in Mammalian reproduction? (25 Marks)

## QUESTION 6.

What are the constituents of mammalian blood? What is the role of each of the constituents? (25 Marks)