COURSE CODE: B112 (S) 2006

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2006

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 QUESTION 1
 (COMPULSORY) PLUS ANY OTHER
 QUESTION; IN SECTION B, ANSWER
 QUESTION 4 (COMPULSORY) PLUS ANY
 OTHER QUESTION.
- 4. EACH QUESTION CARRIES TWENTY FIVE (25) MARKS
- 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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SECTION A

QUESTION 1 (COMPULSORY)

1	are basic structural units of life.	
2. Individuals of the same group in	the same habitats are called a	
3. Name one component of the bios	phere.	
4. Name one forest biome.		
5	feed on dead organisms.	
6	illustrate all possible transfers of energy and	
nutrients among organisms in the ed	cosystem.	
7	is the classification of organisms based on unique	
recognisable characteristics.		
8. 'Sexual' reproduction in ciliates	is known as	
9. Animals without a body cavity a	re said to be	
10. Cnidarians use their stinging ce	lls for	
11. Why are the flukes economicall	y important in Swaziland?	
12. Name one disadvantage of the a	arthropod exoskeleton.	
13. Shark teeth are formed from		
14. Which class of vertebrates were	the first terrestrial animals?	
15. In birds, the	feathers are water resistant.	
16. Individuals with identical allele	s are said to be	
17 Arthropods are characterised by	appendages	

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18. What is codominance?	
19. Name an animal with a 'p	oseudo-placenta".
20. Name one character whic	h distinguishes mammals.
21. In maximising reproducti	ve success, females are limited by
22. Name one phylum with p	arasitic organisms.
23. Name one function of the	cytoskeleton.
24	is a change in body form as an organism develops.
25. What is speciation?	
	[Total marks = 25]

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QUESTION 2

a. Briefly discus the various types of biomes on earth. (15)

b) Briefly discuss distinguishing features which characterise the chordates. (10)

[Total marks = 25]

QUESTION 3

- a. With examples, discuss how insects have an impact on the environment and human activities. (15)
- b. Write short notes on the following:
 - i. Altruism
 - ii. Evidence of evolution

(5 marks each)

[Total marks = 25]

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SECTION B

QUESTION 4 (COMPULSORY)

What is an omnivore	?
	are the only group of mammals without oestrous
Where digestion occ	ars outside cells it is called
digestion.	
	of alveoli is maintained by means of substances called
The tracheal system	of insects opens to the outside through
Give one (2) function	as of blood
What artery carries d	eoxygenated blood?
The	has more than 5 hearts.
Excretory organs hav	e a role in and
	?·
Antennal glands are	Found in
In the	of the nephron all the glucose, 2/3 water, salt
(NaCl) are reabsorbe	d.
Name two (2) organs	that involved in the control of respiration in terrestrial
vertebrates	

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(n)	What is an osmoconformer?	
(o)	What is special about kangaroo rats?	
(p)	What three (3) parts do all neurons have in common?	
(p)	The becomes congested with blood cau	sing its length and
	diameter to increase greatly (erection).	
(r)	is the expulsion of semen from the penis through the	
	urethra.	
(s)	The principal male reproductive hormone is	***
(t)	What is menopause?	<u> </u>
(u)	The vagina opens into the uterus at the	
		[Total = 25 marks]
QUE	ESTION 5	
Desc	cribe and discuss the process of reproduction in humans.	
		[Total = 25 marks]
QUE	ESTION 6	
(a)	Discuss comparatively: single and double circulation i	n named organisms. (10
	Marks)	
(b)	Describe the process of digestion in herbivores.	(15 Marks)
		[Total = 25 marks]