COURSE CODE: B112 (S) 2015

Page 1 of 3

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2015

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. ANSWER ANY <u>TWO</u> QUESTIONS FROM <u>EACH</u>
 - SECTION.
- 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

COURSE CODE: B112 (S) 2015

Page 2 of 3

SECTION A

QUESTION 1

Briefly describe and state importance of the following:

i. Dual lifestyle in amphibians

(10)

ii. Amniotic egg

(15)

[Total = 25 marks]

QUESTION 2

- a. Distinguish between the lithosphere, atmosphere and hydrosphere and name a function for each. (6)
- b. Briefly discuss the similarities and differences between the Monotremata, Marsupialia and the Eutheria. (11)
- c. Describe the key properties which characterise communities.

(8)

[Total = 25 marks]

QUESTION 3

- a. Define and give examples of each of the following:
 - i. Partial dominance
 - ii. Recessive lethal

iii. Codominance

(10)

b. Using the nitrogen cycle, describe how an ecosystem functions as a unit, with energy and nutrients flow between named biotic and abiotic components. (15)

[Total = 25 marks]

COURSE CODE: B112 (S) 2015

Page 3 of 3

SECTION B

QUESTION 4

Write one or two words that apply to EACH of the following: (2.5 marks each)

- (i) Organ of excretion in mammals
- (ii) Enzyme of starch digestion in the human mouth
- (iii) Female hormone of pregnancy
- (iv) Product of fat digestion
- (v) Muscle controlling exit from the stomach
- (vi) Where ovum enters uterus
- (vii) Hormone involved in male puberty
- (viii) Connects one axon to another
- (ix) Number of chambers in a reptile heart
- (x) Feeds only on primary producers

[Total Marks = 25]

QUESTION 5

Describe and compare the structure and function of arteries, capillaries and veins.

[Total Marks = 25]

QUESTION 6

Write notes on the following:

i)	Proximal convoluted tubule	(8)
ii)	Functions of the liver	(8)
iii)	Coronary arteries	(5)
iv)	Hepatic portal vein	(4)

[Total Marks = 25]