COURSE CODE: B401 (M) 2009

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UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2009

TITLE OF PAPER:

ANIMAL PHYSIOLOGY

COURSE CODE:

B401

TIME ALLOWED:

THREE HOURS

INSTRUCTIONS

- 1. ANSWER ANY FOUR QUESTIONS
- 2. EACH QUESTION CARRIES TWENTY FIVE

(25) MARKS

3. WHEREVER POSSIBLE ILLUSTRATE YOUR

ANSWERS WITH LARGE CLEARLY

LABELLED DIAGRAMS

SPECIAL REQUIREMENTS:

- 1. CALCULATORS (CANDIDATES MAY BRING THEIR OWN)
- 2. GRAPH PAPER (ORDINARY)

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

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QUESTION 1.

(a) Using relevant examples discuss the role of counter-current systems in living organisms. (12 Marks)

(b) Discuss fully the relationship between size of an animal and metabolic rate.

(13 Marks)

[Total Marks = 25]

QUESTION 2.

How does the nervous system relate to the endocrine system? Answer with a full discussion giving clear examples.

(25 Marks)

QUESTION 3.

(a) Differentiate between feeding, digestion and nutrition.

(15 Marks)

(b) Discuss fully any vitamin

(10 Marks)

[Total Marks = 25]

QUESTION 4.

By using sketches describe and discuss the structure and function of the human penis.

(25 Marks)

QUESTION 5.

Compare the costs of the three modes of locomotion.

(25 Marks)

QUESTION 6.

How would you design a weight loss programme for human beings? Give a factual basis for your design.

(25 Marks)