COURSE CODE: B401 (S) 2008

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2008

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) How is food intake controlled in man? (12 Marks)

(b) What role is played by water in human nutrition and metabolism?

(13 Marks)

[Total Marks = 25]

QUESTION 2.

Describe any 3 (three) endocrine glands detailing their function and that of their secretions. (25 Marks)

QUESTION 3.

(a) Differentiate between resting potential and action potential. (15 Marks)

(b) Write notes on the following:

(i) Conduction speed

(5 Marks)

(ii) Electrical synapses

(5 Marks)

[Total Marks = 25]

QUESTION 4.

Discuss fully ANY THREE of the following:

- (i) Riboflavin
- (ii) Calcium
- (iii) Ascorbic acid
- (iv) Magnesium
- (v) Vitamin E

(25 Marks)

QUESTION 5.

(a) How is body temperature regulated in ectotherms? (15 Marks)

(b) What is acclimation?

(5 Marks)

(c) Define and describe torpor

(5 Marks)

[Total Marks = 25]

QUESTION 6.

a) Describe the 3 groups of hormones (based on chemical nature and structure). (10 Marks)

(b) Write a discussion of the hypothalamic control system. (15 Marks)

[Total Marks = 25]