**COURSE CODE: B401 (M) 2008** 

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## UNIVERSITY OF SWAZILAND

# **FINAL 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**
- WHEREVER POSSIBLE ILLUSTRATE YOUR 3.

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.

What is meant by the "metabolic rate" of an animal? List and discuss its components?

(25 Marks)

#### QUESTION 2.

How is body temperature regulated in endotherms?

(25 Marks)

# **QUESTION 3.**

Describe fully the structure and function of skeletal muscle.

(25 Marks)

## **QUESTIONS 4.**

- (a) What are the three dietary classes of mammalian herbivores? Give examples in each case. (12 Marks)
- Discuss digestion in herbivores. **(b)**

(13 Marks)

[Total Marks = 25]

## **QUESTION 5.**

- Describe the structure and functioning of the two types of lungs giving (a) examples of the animals in which they are found. (10 Marks)
- Compare regulation of respiration in aquatic and terrestrial animals. **(b)**

(15 Marks)

[Total Marks = 25]

## **QUESTION 6.**

- Describe the structure and function of the human male reproductive system. (a) (10 Marks)
- **(b)** What is puberty? Discuss puberty in female humans, describing the role played by hormones. (15 Marks)

[Total Marks = 25]