**COURSE CODE: B401 (S) 2007** 

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# **UNIVERSITY OF SWAZILAND**

## **MAIN EXAMINATION PAPER 2007**

**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) What are the functions of excretory systems in animals? (5 Marks)
- (b) Discuss fully the function of mammalian kidneys (20 Marks)

  [Total Marks = 25]

#### **QUESTION 2.**

What is an oxygen dissociation curve? List and discuss the various factors that affect the positioning of the oxygen dissociation curves of the blood of named animals. (25 Marks)

## **QUESTION 3.**

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

(b) What is acclimation? (5 Marks)

(c) Define and describe torpor (5 Marks)
[Total Marks = 25]

### **QUESTION 4.**

(a) Briefly describe the structure and function of the human male reproductive system

(10 Marks)

(b) What is meant by puberty? Write out a discussion on puberty in humans describing the role played by hormones. (15 Marks)

[Total Marks = 25]

## **QUESTION 5.**

- a) Describe the 3 groups of hormones (based on chemical nature and molecular structure). (10 Marks)
  - (b) Write a discussion of the hypothalamic control system. (15 Marks)

    [Total Marks = 25]

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# **QUESTION 6.**

Describe and discuss the physical processes in which heat is lost by animals.

(25 Marks)