COURSE CODE: B401/BIO431 (M) 2018

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# **UNIVERSITY OF ESWATINI**

# **MAIN EXAMINATION PAPER 2018**

TITLE OF PAPER : ANIMAL PHYSIOLOGY

COURSE CODE:

B401/BIO431

TIME ALLOWED : THREE HOURS

**INSTRUCTIONS** 

- 1. ANSWER ANY FOUR QUESTIONS
  - **EACH QUESTION CARRIES TWENTY FIVE (25)**

**MARKS** 

3. WHEREVER POSSIBLE ILLUSTRATE YOUR ANSWERS

WITH LARGE CLEARLY LABELLED DIAGRAMS

# **SPECIAL REQUIREMENTS:**

- CALCULATORS (CANDIDATES MAY BRING THEIR OWN) 1.
- **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 a hormone? Write fully on hormones in physiological systems detailing: their chemical composition and structure as well as their areas of control. (25 Marks)

## QUESTION 2.

Write fully on the human respiratory system.

(25 Marks)

# **QUESTION 3.**

- (a) Define, with examples, the following terms (3 marks each):
  - a. Endotherm
  - b. Ectotherm
  - c. Homeotherm
  - d. Poikilotherm
  - e. Heterotherm
- (b) How does conduction contribute to the way animals gains and lose heat

(10 marks)

[Total Marks = 25]

### QUESTION 4.

What is meant by "the metabolic rate" of an animal? Discuss fully giving details of each of the contributors to an animal's metabolic rate. (25 Marks)

### **QUESTIONS 5.**

What structures are used by animals for locomotion? Give a description of the anatomy and discuss the function of each structure

### QUESTION 6.

(a) What is meant by contraception?

(5 Marks)

(b) List, describe and discuss any four (4) methods of contraception.

(20 Marks)

[Total Marks = 25]