COURSE CODE: B401 (M) 2016

Page 1 of 2

91

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2016

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

Page 2 of 2

QUESTION 1.

Discuss fully ANY THREE of the following:

(i)	Retinol	(5 Marks)
(ii)	Thiamin	(5 Marks)
(iii)	Iron	(5 Marks)
(iv)	Pyridoxine	(5 Marks)
(v)	Vitamin K	(5 Marks)
		[Total Marks = 25]

QUESTION 2.

The hypophysis is considered by some to be the "master gland" in the human body. Justify or contradict this statement by giving a full account of the structure and function of this gland.

(25 Marks)

[Total Marks = 25]

QUESTION 3.

How is body temperature regulated in endotherms? Comment on the differences between endotherms and ectotherms" (25 Marks)

[Total Marks = 25]

QUESTION 4.

What is meant by the "metabolic rate" of an animal? Describe and discuss the contributing elements to an animal's metabolic rate? (25 Marks)

[Total Marks = 25]

QUESTIONS 5.

Describe the structure of human skeletal muscle and explain how it functions.

(25 Marks)

[Total Marks = 25]

QUESTION 6.

- Describe the structure and function of the mammalian lung. (15 Marks) (a)
- (b) How is respiration regulated in terrestrial animals. (10 Marks) [Total Marks = 25]