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UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2013/2014

TITLE OF PAPER:

VERTEBRATE ZOOLOGY

COURSE CODE:

B302

TIME ALLOWED:

THREE (3) HOURS

INSTRUCTIONS:

1. ANSWER ANY <u>FOUR</u> QUESTIONS.

2. EACH QUESTION CARRIES TWENTY FIVE (25) MARKS.

3. ILLUSTRATE YOUR ANSWERS WITH LARGE AND CLEARLY LABELED DIAGRAMS WHERE APPROPRIATE.

SPECIAL REQUIREMENTS:

NONE

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATORS

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ANSWER ANY FOUR (4) OUT OF THE SIX (6) QUESTIONS

QUESTION 1

Describe and compare the circulatory system of the Osteichthyes, Amphibia and Reptilia.

[25 marks]

QUESTION 2

Write an essay on the diversity and life histories of Swaziland's frogs (Order: Anura).

[25 marks]

QUESTION 3

How do birds fly? Illustrate your answer with diagrams.

[25 marks]

QUESTION 4

Discuss and compare the appendicular skeletons of Osteichthyes, Reptilia, Aves and Mammalia.

[25 marks]

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QUESTION 5

"The teeth of mammals are poorly adapted to their diets". Discuss this statement.

[25 marks]

QUESTION 6

"The placenta is a uniquely mammalian feature". Provide a critical analysis of this statement, ensuring that you include a description of the placenta, its function and the various groups that have developed it.

[25 marks]