

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2014/2015

TITLE OF PAPER: VERTEBRATE ZOOLOGY

COURSE CODE: B302

TIME ALLOWED: THREE (3) HOURS

- INSTRUCTIONS:**
1. ANSWER ANY FOUR 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**

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

QUESTION 1

Contrast the different reproductive strategies present within the class Aves.

[25 marks]

QUESTION 2

Write an essay on the diversity and life histories of Swaziland's mammals.

[25 marks]

QUESTION 3

a) Discuss the diet and mode of feeding in the lamprey?

[9 marks]

b) Describe the basic biology of the hagfish. How does the hagfish differ from the closely related lamprey?

[16 marks]

[25 marks]

QUESTION 4

Discuss and compare the respiratory systems of Osteichthyes, Amphibia, Reptilia and Mammalia.

[25 marks]

QUESTION 5

Describe in detail the brain and sensory organs of reptiles. Ensure that you cover the various groups of extant reptiles in your answer.

[25 marks]

QUESTION 6

Describe the modes of locomotion in a typical chondrichthyan and osteichthyan fish. Discuss in detail the role that the swim bladder plays in the osteichthyans, and how the chondrichthyans manage without it.

[25 marks]