

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2006

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 FOUR (4) OUT OF SIX (6) QUESTIONS

QUESTION 1

How do birds fly? Illustrate your answer with diagrams.

[25 marks]

QUESTION 2

“The teeth of mammals are adapted to their diets”. Discuss this statement.

[25 marks]

QUESTION 3

Write an essay on the amphibians of Swaziland and their life histories (the use of their English names is acceptable).

[25 marks]

QUESTION 4

- a) Describe the evolutionary relationships within the class Chondrichthyes. [9 marks]
 - b) Describe interesting or unusual features exhibited by the Batoidea. [16 marks]
- [25 marks]

QUESTION 5

Describe and contrast the digestive systems of sharks, pigeons and ruminant mammals.

[25 marks]

QUESTION 6

Write explanatory notes on the following:

- a) Ovoviviparity.
- b) Amniotic egg.
- c) Neurotoxic venom.
- d) Organ of Jacobsen.
- e) Uric acid.

[5 marks each; 25 marks]