

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2015/2016

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

Describe and compare the appendicular skeletons of Osteichthyes, Reptilia, Aves and Mammalia. [25 marks]

QUESTION 2

Describe the diversity and life histories of elasmobranchs found off the coast of southern Africa. [25 marks]

QUESTION 3

Write an essay entitled "The influence of the environment on the form of nitrogenous waste products of vertebrates". [25 marks]

QUESTION 4

How do birds fly? Illustrate your answer with diagrams. [25 marks]

QUESTION 5

Discuss the changes that took place in the circulatory system during the colonisation of terrestrial habitats. Ensure that you include aquatic, semi-aquatic and fully terrestrial vertebrates. Provide examples and illustrate your answer with diagrams. [25 marks]

QUESTION 6

How are the teeth and jaws of mammals adapted to their diet? Answer this question with the aid of diagrams. [25 marks]