COURSE CODE: B302 (M) 2007

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UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2007

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

Describe and contrast the circulatory systems of chondrichthyian fishes and mammals.

[25 marks]

QUESTION 2

Discuss the anatomical and physiological changes that were necessary for the invasion of terrestrial habitats by vertebrates living in aquatic habitats. [25 marks]

QUESTION 3

Write an essay on the breeding biology of birds, with particular reference to those living in Swaziland. [25 marks]

QUESTION 4

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

[25 marks]

QUESTION 5

Describe reptilian diversity of Swaziland. Include any interesting information on the natural history of these reptiles, e.g. diet, breeding, habitat. The use of English names is acceptable.

[25 marks]

QUESTION 6

Write explanatory notes on the following:

- a) Reptilian salt glands.
- a) Cutaneous respiration.
- b) Diapsid skull.
- d) Lateral line system.
- e) Ammocoete larva.

[5 marks each; 25 marks]