COURSE CODE: B302 (M) 2005 ...

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER 2005

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

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

QUESTION 1

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

[25 marks]

QUESTION 2

a) Describe, with the aid of a sketch, how the fangs of adders become erect. [5 marks]

b) Name the four types of snake venom, and describe their effects on humans. Provide examples of snakes carrying each type of venom. [20 marks]

[25 marks]

QUESTION 3

Write an essay on the reptiles of Swaziland and their life histories (the use of their English names is acceptable). [25 marks]

QUESTION 4

Compare the anatomy, function and evolution of the brains of cyclostomes, reptiles and birds.

[25 marks]

QUESTION 5

Discuss and compare the modes of respiration in elasmobranchs, toads, snakes, and rodents.

[25 marks]

QUESTION 6

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