

2nd SEM 2013/2014



Page 1 of 3

UNIVERSITY OF SWAZILAND
SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: ALL B.Sc. YEAR I

COURSE CODE: AS 101

TITLE OF PAPER: ZOOLOGY

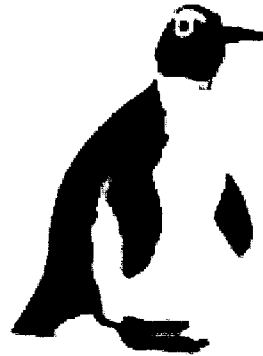
TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY
THE CHIEF INVIGILATOR

QUESTION 1

Observe the pictures below and answer:

A**B**

- a) To which Phylum do the organisms shown in plate A? Briefly describe the Phylum. (10 Marks)
- b) To which Phylum and Class does the animal in plate B belong? Briefly describe the Class. (15 Marks)

QUESTION 2

- a) What is the difference between **phenotype** and **genotype**? (6 Marks)
- b) List 4 **evidences for evolution**. (8 Marks)
- c) Where and when were goats first farmed? (5 Marks)
- d) How are DNA bases linked between them. (6 Marks)

QUESTION 3

Draw and label the structures of the following:

- a) Compact organ. (5 Marks)
- b) Simple sacular gland. (5 Marks)
- c) Mammalian female reproductive tract. (7 Marks)
- d) Avian oviduct. (8 Marks)

QUESTION 4

Discuss the function(s) of each of the following:

- a) Somatotropic hormone. (10 Marks)
- b) Leucocytes. (8 Marks)
- c) Oxytocin. (7 Marks)

QUESTION 5

- a) Explain the process of spermatogenesis in mammalian by using well-labelled drawing. (10 Marks)
- b) Explain the process of fertilization and the development up to the zygote stage. (15 Marks)