

2nd SEM 2011/2012



Page 1 of 2

**UNIVERSITY OF SWAZILAND
SUPPLEMENT EXAMINATION PAPER**

PROGRAMME: ALL B.SC YEAR I

COURSE CODE: AS 101

TITLE OF PAPER: ZOOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER 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) Which Class belongs the following animals? Briefly describe each Class. (16.0 points)
- B) What is the difference between phenotype and genotype? (9.0 points)

QUESTION 2

- A) Briefly explain divergent evolution. (10.0 points)
- B) List the organic bases of DNA. (4.0 points)
- C) How the DNA bases link between them. (5.0 points)
- D) Define Essential amino acids. (6.0 points)

QUESTION 3

Draw and label the structure of the following:

- A) Mammalian ovum (5.0 points)
- B) Female reproductive tract (5.0 points)
- C) Avian oviduct (5.0 points)
- D) cartilage (5.0 points)
- E) Sperm (5.0 points)

QUESTION 4

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

- A) Throbbocytes (5.0 points)
- B) Motor nerve cell. (5.0 points)
- C) Growth Hormone. (5.0 points)
- D) Luteinizing Hormone. (5.0 points)
- E) Male accessory organs. (5.0 points)

QUESTION 5

Write on:

- A) Compare between compact and tubular organs. (10.0 points)
- B) Compare between Simple and stratified cuboidal epithelium (10.0 points)
- C) Types of granulocytes. (5.0 points)