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UNIVERSITY OF SWAZILAND

2<sup>nd</sup> SEM. 2012/2013

SUPPLEMENTARY EXAMINATION PAPER

**PROGRAMME** : B. Sc. IN ABE YEAR I, B.Sc. IN AEc & ABMgt  
YEAR I, B.Sc. IN AG.ED YEAR I, B.Sc.IN AGRON  
YEAR I, B.Sc. IN AN. Sc YEAR I, B.Sc. IN AN. Sc.  
Dairy YEAR I, B.Sc. IN FSNT YEAR 1, B.Sc. IN COS  
YEAR 1, B.Sc. IN COSE YEAR 1 B.Sc. IN HORT  
YEAR 1, B.Sc. IN TADM YEAR I.

**COURSE CODE** : AS 101

**TITLE OF PAPER** : ZOOLOGY

**TIME ALLOWED** : TWO HOURS

**INSTRUCTIONS** : ANSWER FOUR QUESTIONS, TWO QUESTIONS  
FROM EACH SECTION.

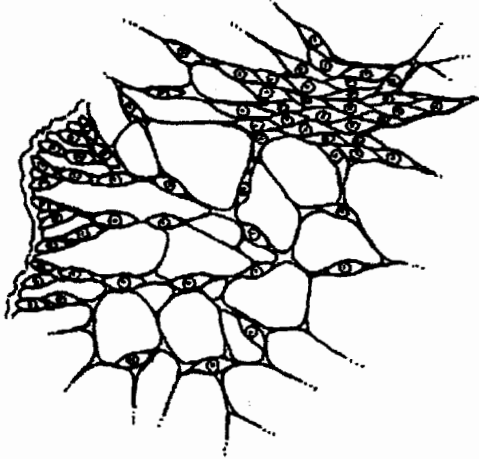
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GRANTED BY THE CHIEF INVIGILATOR**

**Section A**

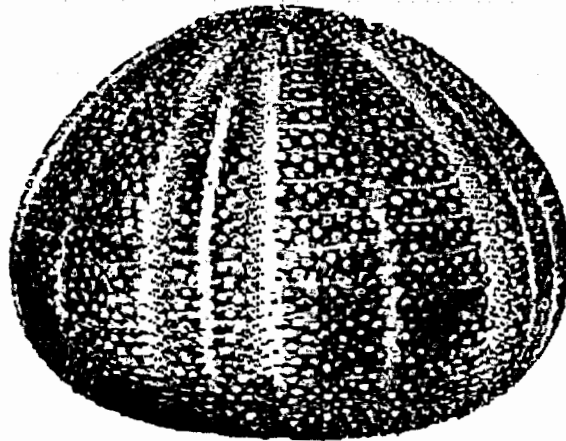
**QUESTION 1**

Observe the pictures below and answer:

**1**



**2**



- A) To which Phylum do animals 1 and 2 belong? Briefly describe each Phylum. (18.0 points)
- B) Explain genetic death? (7.0 points)

**QUESTION 2**

- A) Briefly explain convergent evolution. (10.0 points)
- B) List the steps of domestication of animals (12.0 points)
- C) Illustrate the linkage of DNA bases. (3.0 points)

**QUESTION 3**

- A) Explain and illustrate phagocytosis. (12.5 points)
- B) Briefly explain Telophase II. (12.5 points)

## **Section B**

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### **QUESTION FOUR**

a) Draw and label the structure of the following:

i- Avian testicle (5.0 points)

ii-Mammalian ovum (5.0 points)

iii-Oogenesis in mammals (5.0 points)

b) Name five (5) examples of tubular organs in animal body (5.0 points)

c)Name five (5) types of leukocytes (5.0 points)

### **QUESTION FIVE**

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

a) Cartilage (5.0 points)

b) Adreno-Cortico-Tropic hormone (5.0 points)

c) Follicular Stimulating hormone (5.0 points)

d) Leucocytes (5.0 points)

e) Male accessory glands (5.0 points)

### **QUESTION SIX**

Compare the following:

a) The motor and sensory nerve cell (5.0 points)

b) Simple saccular and simple branched saccular gland (5.0 points)

c) Simple squamous and Stratified squamous epithelium (5.0 points)

d) Tubular and compact organs (5.0 points)

e) Collagen and Elastic fibres (5.0 points)