



**1<sup>ST</sup> SEMESTER 2011/2012**

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**UNIVERSITY OF SWAZILAND  
FINAL EXAMINATION PAPER**

**PROGRAMME** : **B. SC. IN AGRICULTURAL EDUCATION  
YEAR II, ANIMAL SCIENCE -DAIRY YEAR  
II AND B. SC. IN ANIMAL SCIENCE YEAR II**

**COURSE CODE** : **AS 201**

**TITTLE OF PAPER** : **ANATOMY AND PHYSIOLOGY**

**TIME ALLOWED** : **TWO HOURS**

**INSTRUCTIONS** : **ANSWER ANY FOUR QUESTIONS**

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

**QUESTION ONE**

Explain the following:

- a- Types of lymphocytes. (5 Marks)
- b- Marbling. (5 Marks)
- c- Lactation period. (5 Marks)
- d- Oestrus signs in cattle. (5 Marks)
- e- Types of arteries. (5 Marks)

**QUESTION TWO**

Illustrate with a labelled diagram the following:

- a- Synovial joint. (5 Marks)
- b- The Avian oviduct. (5 Marks)
- c- Regions of the stomach of the pig. (5 Marks)
- d- Structure of the body wall. (5 Marks)
- e- Structure of the neuron. (5 Marks)

**QUESTION THREE**

Describe the function (s) of the following:

- a- Articular disc. (5 Marks)
- b- The brainstem. (5 Marks)
- c- The Glucocorticoid. (5 Marks)
- d- Testosterone. (5 Marks)
- e- The Nasal cavity. (5 Marks)

**QUESTION FOUR**

Compare between:

- a- Periosteum and endosteum. (5 Marks)
- b- Flexors and extensors muscles. (5 Marks)
- c- Median plane and transverse plane. (5 Marks)
- d- Terminal and respiratory bronchioles. (5 Marks)
- e- Polarised and depolarised nerve membrane. (5 Marks)

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**QUESTION FIVE**

- a. Name the ten (10) structure organization of the conducting portions of the respiratory system of farm animals. (10 Marks)
- b. Name the three (3) accessory organs of the digestive system. (3 Marks)
- c. Name the five (5) hormones of anterior pituitary gland. (5 Marks)
- d. Name the four (4) descriptive terms used in the study of anatomy of farm animals. (4 Marks)
- e. Name the three (3) accessory glands of the male reproductive system. (3 Marks)