



1ST SEMESTER 2013/2014

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**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

**PROGRAMME : B. SC. IN AGRICULTURAL EDUCATION
YEAR II , B. SC. IN ANIMAL SCIENCE YEAR
II AND B. SC. IN ANIMAL SCIENCE
(Dairy)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

Write on:

- a- Three advantages of artificial insemination [5 Marks]
- b- Milk let down [5 Marks]
- c- Feedback Mechanism [5 Marks]
- d- Rumination [5 Marks]
- e- Foramen ovale [5 Marks]

QUESTION TWO

Illustrate using a labelled diagram the following:

- a- Compact organ [5 Marks]
- b- The neuron synapse [5 Marks]
- c- Histological structure the caudal part of the nasal cavity [5 Marks]
- d- Peritoneum pouches in female [5 Marks]
- e- Histological structure of small intestine [5 Marks]

QUESTION THREE

Describe the three functions of the following:

- a- Larynx [5 Marks]
- b- Oviduct of mammals [5 Marks]
- c- Saliva in ruminants [5 Marks]
- d- Oxytocin [5 Marks]
- e- Progesterone [5 Marks]

QUESTION FOUR

Compare and contrast between:

- a- Humoral and cellular immune system [5 Marks]
- b- Mitral and semilunar valves [5 Marks]
- c- Glucocorticoids and mineralocorticoids [5 Marks]
- d- Prostate and Cowper's gland [5 Marks]
- e- Luteal and follicular phase [5 Marks]

QUESTION FIVE

- a. Name five (5) descriptive terms that are used in the study of Anatomy [5 Marks]
- b. Name five (5) ligaments that are found in the synovial joints [5 Marks]
- c. Name three (3) phases of gastric juice reflex [3 Marks]
- d. Name four (4) parts of the respiratory portion [4 Marks]
- e. Name five (5) hormones of the anterior pituitary glands [5 Marks]
- g. Define: Lactogenesis [3 Marks]