



# UNIVERSITY OF SWAZILAND 1 ST SEM. 2015/2016 SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BSc. AGRICULTURAL EDUCATION YEAR 2, BSc. ANIMAL SCIENCE YEAR 2 AND BSc. ANIMAL SCIENCE (DAIRY OPTION) YEAR 2

COURSE CODE:

AS 201

TITLE OF PAPER: ANATOMY AND PHYSIOLOGY

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 ONE:**

a. List the different parts of the vertebral column. (6 Marks)

b. List the anatomical difference between the vertebrae of the vertebral column.

(6 Marks)

c. Name the type of joint and cartilage found in between vertebrae. (3 Marks)

d. Describe the Pelvic Girdle. (4 Marks)

e. List the contents of the Pelvic Cavity. (3 marks)

f. What is the clinical importance of the Pelvic Cavity? (3 Marks)

# **QUESTION TWO:**

Write short Notes on:

i.	Estrus signs in pigs.	(5 Marks)
ii.	A pneumatic bone.	(5 Marks)
iii.	Classification and function of muscles.	(5 Marks)
iv	Sympathetic and parasympathetic nervous systems.	(10 Marks)

## **QUESTION THREE:**

a.	Describe the three(3) layers of an animal skin.	(9 Marks)
b.	Describe the primary functions of the animal skin.	(10 Marks)
C	List three(3) applied uses of an animal skin.	(6 Marks)

## **QUESTION FOUR:**

Describe the process of digestion and absorption in poultry, outlining the following subtopics;

a. Anatomic features and physiologic functions from the beak to the large intestine/colon. (15 Marks)
b. Chemical and physical digestion. (10 Marks)

## **QUESTION FIVE:**

i.	Draw and label the structure of a synovial joint.	(10 Marks)
ii.	Describe the classification of joints in farm animals.	(5 Marks)
iii.	Describe the healing process in bone fracture and explain	
	the importance of exercise in bone fracture healing.	(10 Marks)