



UNIVERSITY OF SWAZILAND

1ST SEM. 2015/2016

FINAL 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:

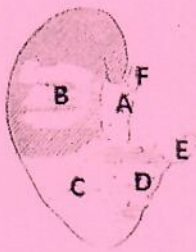


Figure 1

- a. Identify the organ shown and Label the components A – F in Figure 1 above. **(10 Marks)**
- b. List the different parts of the Pig and Poultry digestive systems. **(6 Marks)**
- c. Compare and contrast; **(9 Marks)**
 - i. The stomach
 - ii. The small intestine
 - iii. The large intestine

Of Pig and Poultry.

QUESTION TWO:

Write short notes on:

- i. Estrus signs in cattle. **(6 Marks)**
- ii. Blood water homeostasis. **(5 Marks)**
- iii. Pelvic cavity in cattle. **(6 Marks)**
- iv. Digestion in crop and gizzard in chicken. **(8 Marks)**

QUESTION THREE:

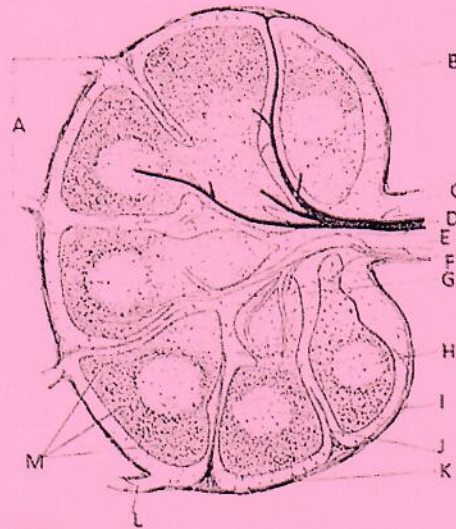


Figure 2

- i. Identify the organ shown and label the components **A – M** in **Figure 2** above. **(13 Marks)**
- ii. Describe the general functions of the Lymphatic system. **(6 Marks)**
- iii. How is lymph formed and returned to the blood stream? **(3 Marks)**
- iv. Write short notes on the term Mucosa–Associated Lymphatic system **(MALT)**. **(3 Marks)**

QUESTION FOUR:

- a. List all the hormones produced by the female reproductive system. **(8 Marks)**
- b. Describe the routine use of two of the listed hormones in livestock farming. **(4 Marks)**
- c. List all the parts of the male reproductive system in cattle. **(8 Marks)**
- d. Describe the anatomical disorder commonly associated with the penis in Brahman bulls. How is it corrected? **(5 Marks)**

QUESTION FIVE:

Describe and explain the following;

- a. the anatomy and physiology of the Pumping Apparatus.

(15 Marks)

- b. the anatomy and the physiology of the three(3) types of ventral cavities found in the body of farm animals.

(10 Marks)