



**UNIVERSITY OF SWAZILAND**

**1<sup>st</sup> SEM. 2017/2018**

**RE-SIT EXAMINATION PAPER**

**PROGRAMME: B.Sc. AGRICULTURAL EDUCATION YEAR 2, B.Sc. ANIMAL SCIENCE YEAR 2 AND B.Sc. ANIMAL SCIENCE (DAIRY OPTION) YEAR 2**

**COURSE CODE: ASC 207**

**TITLE OF PAPER: ANATOMY AND PHYSIOLOGY OF FARM ANIMALS.**

**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 1**

- a) Name two (2) parts of the skeleton of farm animals and list under each the components of the part. (10 Marks)
- b) Name the regions into which the vertebral column of farm animals is subdivided and explain how they can be differentiated. (15 Marks)

**QUESTION 2**

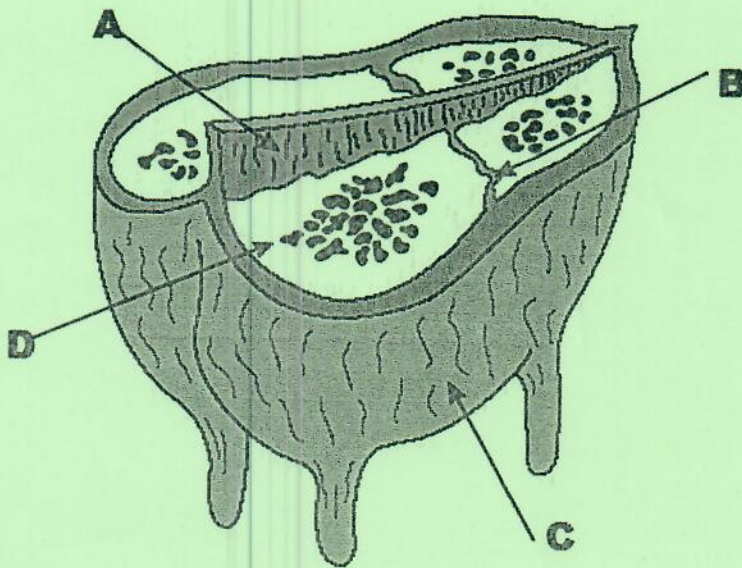
- i. List the three (3) ventral body cavities. (6 Marks)
- ii. Briefly describe the pelvic cavity. (13 Marks)
- iii. Briefly explain the clinical significance of the pelvic cavity. (6 Marks)

**QUESTION 3**

- a. Describe the role of exercise in the fracture repair of bone tissue. (10 Marks)
- b. Briefly describe the steps in the repair of bone fracture. (15 Marks)

**QUESTION 4**

- a) Identify Figure 1 below. Name the parts labeled A to D in the figure. (10 Marks)



Using figure 1 above answer the following questions;

- a. What is lactation? **(5 Marks)**
- b. What are the necessary components for lactation to occur? **(7 Marks)**
- c. Name one (1) example of the clinical significance of the anatomical features of figure 1. **(3 Marks)**

#### QUESTION 5

- a. List the regions of the monogastric stomach of a pig. **(3 Marks)**
- b. List the compartments of the ruminant stomach, how can they be differentiated or identified?. **(8 Marks)**
- c. List all parts of the digestive system of poultry. **(7 Marks)**
- d. Describe the three (3) Phases for secretion of gastric juices by neuronal Reflex Action. **(7 Marks)**