



UNIVERSITY OF ESWATINI

1<sup>st</sup> SEM. 2019/2020

**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:** ASC207

**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 ONE**

Write short notes on:

- (a) The accessory organs of the digestive system of farm animals (5 Marks)
- (b) The dorsal, palmar and plantar surfaces of the front and hind legs in cattle. (10 Marks)
- (c) Two (2) ways of classifying bones, give examples. (5 Marks)
- (d) The thoracic cavity in cattle, why is it important? (5 Marks)

**QUESTION TWO**

- a. Define and explain the term alveoli (5 Marks)
- b. What is a synovial joint? Give an example. (5 Marks)
- c. Describe the pancreas (5 Marks)
- d. List and give examples of factors that affect bone growth. (6 Marks)
- e. Explain the term marbling (4 Marks)

**QUESTION THREE**

- a. Describe the parasympathetic nervous system. (10 Marks)
- b. Describe the stages of healing in a bone fracture. (10 Marks)
- c. Explain the role of exercise in bone fracture healing. (5 Marks)

**QUESTION FOUR**

Write short notes on the following;

- a. Esophageal groove. (5 Marks)
- b. Differences between arteries and veins. (5 Marks)
- c. Functions of the respiratory system (10 Marks)
- d. The four (4) blood circulatory systems. (5 Marks)

**QUESTION FIVE**

- a. What is a hormone? Give an example, and mention its function. (5 Marks)
- b. List the major classifications of hormones. (5 Marks)
- c. Explain how hormone release is regulated. (10 Marks)
- d. Illustrate with a labeled diagram the avian oviduct. (5 Marks)

**END OF QUESTION PAPER**