



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE
OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE WITH
INFORMATION TECHNOLOGY**

(MAIN CAMPUS)

AAN 103: ANATOMY OF FARM ANIMALS

Date: 27th November, 2013

Time: 8.30 - 10.30am

INSTRUCTIONS:

- Answer ALL QUESTIONS in section A and B.

Answer ALL Questions

SECTION A

1. a) Name the three layers constituting the walls of arteries and veins (3 marks)
b) State the functions of the following anatomical structures found within the cytoplasm of the cell; Peroxisome, Centriole (2 marks)
c) Differentiate the following descriptive terms as used in the study of farm animal anatomy
 - i. cranial and caudal (2 marks)
 - ii. proximal and distal (2 marks)
2. a) Name the three parts /types of division of skeletal system (3marks)
b) Name the five parts of the vertebral column of cattle and indicate the number for each part (5 marks)
c) Outline the three special circulation patterns in an animal (3 marks)
3. a) Outline the main functions of the respiratory system (5 marks)
b) The respiratory system can also be separated into a conducting zone and a respiratory zone. Explain the conducting zone and name at least 6 structures that constitute conducting zone. (2 marks)
4. a) Name and state the function for the primary lymphoid organs in an animal body (4 marks)
b) From esophagus to anal canal, the walls of the digestive tract have the same basic 4 layer arrangement: sequentially, list the four layers from the lumen of the GIT (4 marks)
c) Name the major regions of the stomach of a monogastric animal (4 marks)
d) Reproductive system can be grouped into external and internal organs, for both male and female animals, name the organs that make external and internal organs for both sexes (2 marks)

SECTION B

5. a) Describe the level of organization of any two of the following farm animals; i) bull ii) hen, iii) pig, iv) horse and v) rabbit (16 marks)
b) Citing one examples for each, explain the nomenclature (naming) of muscle (7 marks)
6. a) Discuss the functions of the liver as an accessory digestive organs (10 marks)
b) State the position and function of the accessory sexual organs in male animals (6 marks)