UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME	:	DIPLOMA IN AGRICULTURE YEAR II, AGRICULTURAL EDUCATION YEAR II AND REMEDIAL YEAR IN AGRICULTURE
COURSE CODE:	:	APH 201
TITLE OF PAPER	:	INTRODUCTION TO ANIMAL HEALTH AND HYGIENE
TIME ALLOWED	:	TWO (2) HOURS
INSTRUCTIONS	:	ANSWER ANY FOUR QUESTIONS

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

QUESTION ONE

a. Explain how the following descriptive terms are used in the study of anatomy of animals. (6 Marks)

   i. cranial
   ii. medial
   iii. dorsal
   iv. lateral
   v. caudal
   vi. ventral

b. Name the four (4) body planes used in the study of anatomy in animals. (4 Marks)

c. Describe the organization of the thoracic cavity and the arrangements of the pericardium (pericardial membrane) and the pleural membrane in relation to the body wall and the organs within the cavity. (15 Marks)

QUESTION TWO

Describe the organization and functions of the nervous system of farm animals and indicate the main functions of this system. (25 Marks)

QUESTION THREE

Describe the organization and functions of the pulmonary and systemic blood circulatory systems. (25 Marks)

QUESTION FOUR

a. Describe the relationship (s) between the hypothalamus, the pituitary gland and the environment of farm animals. (10 Marks)

b. Give a detailed account of the mode of secretion and function (s) of the gonadotropins in the female farm animals. (15 Marks)

QUESTION FIVE

a. Name two (2) sperm barriers in a cow and indicate their significance in the reproduction of this animal. (5 Marks)

b. Indicate the duration of gestation and then give an account of the hormonal changes in the foetus and the cow at the onset of parturition indicating the role played by each of these hormones in the initiation of the process of parturition. (20 Marks)

QUESTION SIX

a. Describe the location and the structural organization of the suspensory, secretory and the duct system of the mammary glands of the cow. (15 Marks)

b. Explain how lacto genesis and galactopoiesis are achieved in the cow. (10 Marks)