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UNIVERSITY OF ESWATINI

1st SEM. 2019/2020

FINAL 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.

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(5 Marks)

QUESTION ONE

Write short notes on:

(a) anatomy and physiology of farm animals.	(5 Marks)
(b) The cranial and caudal surfaces of both legs in cattle.	(10 Marks)
(c) The main divisions of the vertebral column.	(5 Marks)
(d) Explain how to differentiate the vertebrum from each of the	

QUESTION TWO

Vertebral column divisions in cattle.

(a) Copy the table onto your answer book and complete it by filling your answers in empty boxes.(15 Marks)

	Thoracic cavity	Abdominal cavity	Pelvic cavity
Organ contents			
Boundaries			
Importance			

(b) Differentiate compact bones and spongy bones.

(5 Marks)

(c) Compare rigor mortis and muscle contraction.

(5 Marks)

QUESTION THREE

(a) Describe the structural and functional organization of the foetal blood circulatory system in farm animals.

(15 Marks)

(b) List the modifications of the foetal blood circulatory system from that of the adult pulmonary and systemic blood circulatory systems.

(5 Marks)

(c) What are the reasons for the modification of the foetal blood circulatory system from that of the adult system?

(5 Marks)

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QUESTION FOUR

i) Copy the table onto your answer script, and fill up the blank spaces.

(15 Marks)

	Name of cavity	Name of inner & outer layers	Name of fluid	Source of fluid	Organ contents
Pericardium					
Pleural membrane					
Peritoneum					

ii) Describe the sympathetic nervous system.

(10 Marks)

QUESTION FIVE:

(a) Discuss the anatomy and physiology of the respiratory pumping apparatus. (20 Marks)

(b) Explain how milk production is continued and maintained during the lactation period. (5 Marks)

END OF QUESTION PAPER