DAGRI PAST PAPERS

J. FRANCOR SIR ARTHUR LEWIS COMMUNITY COLLEGE JAN 11 2019 DIVISION OF AGRICULTURE LIGRARY PHINE, CAST END OF SEMESTER ONE EXAMS DECEMBER 20 ASSOCIATE DEGREE IN GENERAL AGRICULTURE

ANIMAL SCIENCE- ASC 102

Date: 15th December, 2017

COMMUNI

Duration: 2 1/2 hrs

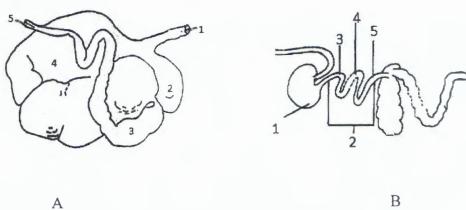
Time: 9:00 a.m.

This paper consists of FIVE (5) questions. You are to answer ALL. Marks allocated to each part of a question are indicated in brackets at the end of each part.

1. DIGESTIVE SYSTEM

The process of digestion occurs differently in animals based on the diets they consume.

a. Diagrams A and B illustrate two types of digestive systems found in farm animals. For EACH diagram, correctly identify the structures labelled 1-5.



[10 marks]

b. Briefly compare the process of digestion between these two animals.

[10 marks]

2. NERVOUS AND ENDOCRINE SYSTEMS

a. Complete the following table comparing the endocrine and nervous systems. [10 marks]

Characteristic	Endocrine system	Nervous system
General function		
Reaction to stimuli		
Duration of effects		
Chemical messenger		
Target tissues		

- b. Which endocrine gland acts as the link between the nervous system and the endocrine system? [1 mark]
- c. Complete the following table that relates to endocrine glands, their hormones and hormone function in an animal's body. [10 marks]

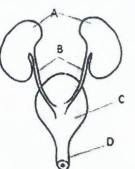
Endocrine gland	Hormone	Function
	Growth hormone	
	Luteinizing hormone	
	Oxytocin	
	Epinephrine and norepinephrine	
	Testosterone	to full line of the state of th

d. Using a clearly labelled diagram to assist you, explain the reflex arc. Be sure to indicate the roles of each type of neuron involved. [12 marks]

3. URINARY SYSTEM

a. Correctly identify the structures labelled A-D in the following diagram

[4 marks]



b.	State ONE (1) function of EACH part.	[4 marks]

c. Briefly explain what happens in the part labelled A. [10 marks]

4. **REPRODUCTIVE SYSTEM**

a.	What are the TWO (2) MAIN functions of the testes?	[2 marks]
b.	Which part of the organ is responsible for performing E	ACH function?

[3 marks]

- c. Give THREE (3) functions of the female reproductive system. [3 marks]
- d. The oestrus cycle can generally be divided into FOUR (4) stages although some species undergo a fifth stage.
 - i. Name these FIVE (5) stages. [5 marks]
 - ii. Briefly explain what happens in EACH stage. [20 marks]

