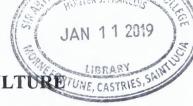
SIR ARTHUR LEWIS COMMUNITY COLLEGE DIVISION OF AGRICULTURE

END OF SEMESTER ONE ALTERNATE EXAMS

ACADEMIC YEAR 2017/2018



CHILL COMMUN.

ASSOCIATE DEGREE IN GENERAL AGRICULTURE

ANIMAL SCIENCE- ASC 102

Duration: 2 ½ hrs

Time: 9:00 a.m.

Date: Thursday 1st February, 2018

Directions: Answer all questions on this paper.

1. Cells reproduce through what is known as the cell cycle.

With the aid of diagrams, explain the cell cycle of a somatic cell.

[20]

2.

a. Using ANY six (6) hormones, complete the following table by indicating the hormone, the gland where each hormone is produced and ONE function of each hormone.

[18]

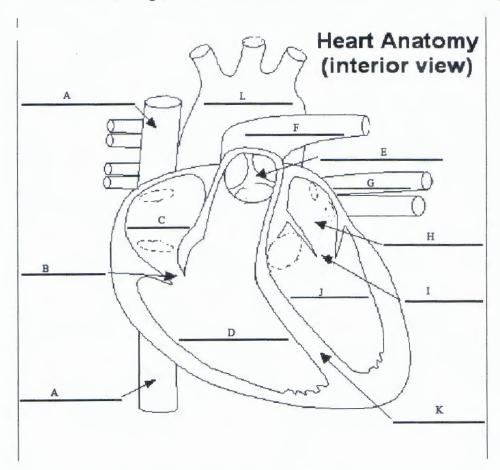
HORMONE	GLAND WHERE PRODUCED	FUNCTION
10 10 10 10 10		
100		

- b. Which endocrine is considered to be the master endocrine gland? Give one reason for your answer. [2]
- 3. The following terms all refer to the nervous system.
 - a. Differentiate between the following pairs of terms;

[6]

i. Central nervous system (CNS) and peripheral nervous system (PNS)

- ii. Afferent and efferent nerves.
- iii. Somatic nervous system and autonomic nervous system
- b. By what other names are afferent and efferent nerves known? [2]
- c. 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]
- 4. a. Briefly compare and contrast the process of digestion in monogastric and ruminant stomachs. [12]
 - b. Explain FOUR functions of the kidney. [4]
 - c. Briefly explain how urine is produced. [4]
- 5. a. Label the diagram of the heart which follows: [10]



b. Explain the flow of blood through the heart.

[10]

END OF TEST