



SIR ARTHUR LEWIS COMMUNITY COLLEGE  
DIVISION OF AGRICULTURE



Associate Degree Programme  
End of Semester II Examination

Course: **Animal Science II – ASC512**  
Duration: 2 ½ hours

Date: **May, 2003**

#A7  
#A14

Answer Any Five (4) Questions. Each Question is worth 25 marks

1. (a) List eight (8) characteristics of Mammals that distinguish them from other vertebrates (4 marks)
- (b) Explain why the order Ungulata is unique and important to agriculture. (9 marks)
- (c) Describe the three (3) ways mammalian embryos develop and explain the supremacy of placental mammals today. (12 marks)
2. (a) State the organs of the respiration system. (4 marks)
- (b) Outline the major functions of the Endocrine system. (9 marks)
- (c) Discuss the relationship between the Endocrine glands and the nervous system in maintaining homeostasis (12 marks)
3. (a) List two types of digestive systems found in mammals. (4 marks)
- (b) Discuss the importance of ruminantion to the production of food for human consumption. (9 marks)
- (c) Describe the production of energy as glucose is broken down to release carbon dioxide and water. (12 marks)
4. (a) What is 'Serum'. (4 marks)
- (b) Outline four (4) types of primary tissues. (9 marks)
- (c) Discuss the functions of four (4) types of connective tissues. (12 marks)
5. (a) Outline how viruses multiply. (6 marks)
- (b) Discuss the classification of Bacteria. (8 marks)
- (c) Describe the role of bacteria in nature. (11 marks)
6. (a) List four (4) characteristics of the phylum aves. (4 marks)
- (b) Outline the differences between Precocial birds and Altricial birds. (9 marks)
- (c) Describe the structure of a bird's feather. (12 marks)
7. Write short notes on any five of the following: each short note is worth four (5) marks
  - (a) Pulse
  - (b) Adipose tissue
  - (c) Viruses
  - (d) Glycolysis
  - (e) Ductless Glands
  - (f) Shock
  - (g) Diastole
  - (h) Classification of Placental Mammals