



SIR ARTHUR LEWIS COMMUNITY COLLEGE  
DIVISION OF AGRICULTURE  
CERTIFICATE PROGRAMME



COURSE: ANS 104

DATE: WEDNESDAY 8<sup>th</sup> DECEMBER, 2004

TIME : 2.5 HOURS

Course Title : Animal Studies

#A19

Answer question one and any three others. Students are reminded to read the questions carefully and to answer all the parts of the questions.

#101

1. What are the characteristics of the Class Insecta?  
 (b) Define Metamorphosis. With the aid of chart describe the life cycle of a named parasitic insect. Why is it important to know the life cycle of the insect pest before a control programme is developed?  
 (c) At which stage in the development of the parasitic insect you have selected, is it most vulnerable? **40 MARKS**
2. List the characteristics of living organisms. Explain the importance of any three of these characteristics in a living organism. **20 MARKS**
3. Write short notes on (a) Osmosis, (b) Diffusion, (c) Homeostasis, (d) Active Transport, (e) Tugor Pressure, (f) Wet Weight **20 MARKS**
4. You were given a box containing 100 layer chicks; describe the management systems you would put in place to ensure that the birds are properly reared. At what age would you expect your first egg? **20 MARKS**
5. List three characteristics of the Phylum Platyhelminths. Describe the life cycle of the liver fluke and indicate at which stage in this cycle is it most vulnerable. What is the name of the disease associated with this parasite? **20 MARKS**
6. Draw a labeled diagram of the Amoeba and Paramecium. How do these animals move, feed and reproduce. Of what importance are animals like these to Ruminant animals? **20 MARKS**