



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

INSTITUTE OF OPEN LEARNING

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 308: ARTHROPOD BIOLOGY

=====

DATE: WEDNESDAY 21ST JULY 2010 TIME: 11.00 A.M. - 1.00 P.M.

INSTRUCTIONS

**Answer ALL questions in section A and ONE question in section B.
Within a section all questions carry equal marks. Illustrate your answers with
diagrams and give examples wherever appropriate.**

SECTION A

Answer ALL questions. (40 marks).

1. Explain the behaviour of millipedes in their natural habitats.
2. Define zooprophyllaxis and explain its application.
3. Explain the importance of protandry and spermatheca in insects.
4. Define myiasis and give two examples which occur in sheep and cows.
5. Outline digestion in crustaceans.
6. Describe briefly the habit of palpalis group of tsetse flies.
7. Outline three types of plague.
8. Describe briefly visceral leishmaniasis.

SECTION B

Answer any one question (30 marks)

9. Describe the ecology of ticks and explain their impact on live-stock industry.
10. Give an account of metamorphosis in arthropods.