



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

INSTITUTIONAL BASED PROGRAMME (AUGUST SESSION)

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 403: GENERAL ENTOMOLOGY

=====

DATE: THURSDAY 30TH DECEMBER 2010

TIME: 2.00 P.M. - 4.00 P.M.

INSTRUCTIONS

Answer **ALL** questions from Section A and any ONE question from Section B.

Within a section, All questions carry equal marks.

Illustrate your answers with diagrams and give examples where appropriate.

SECTION A - (40 MARKS)

Answer **ALL** questions

1. Explain how parthenogenesis occurs in insects and state its advantages.
2. Describe briefly insect activities controlled by five functional groups of pheromones.
3. Describe briefly the nitrogenous waste products eliminated by insects.
4. Explain the key methods a taxonomist uses in insect identification.
5. Draw a labeled diagram of the integument of an insect and state its functions.

6. Describe the venation pattern of the primitive insect wing.
7. Explain the following terminologies:
 - i) Polyphagous
 - ii) Geniculate
 - iii) Polytrophic
 - iv) Holopneustic
 - v) Prognathous
8. Explain the major divisions of the insect central nervous system.

SECTION B: (30 MARKS)

Answer ONE Question.

9. Discuss the value of insects to humans and in ecosystems.
10. 'Insect success is partly due to the anatomical and physiological adaptations of the digestive system'. Discuss this statement.