



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 308: ARTHROPOD BIOLOGY

DATE: Monday 5th December, 2011

TIME: 4.30 p.m. – 6.30 p.m.

INSTRUCTIONS

Answer ALL questions in Section A and ONE question in Section B. Within each Section, questions carry equal marks. Illustrate your answers with diagrams and give examples where appropriate. – (40 marks)

SECTION A

1. Explain the following terms as applied in arthropods:
 - a) Protandry
 - b) Genes organ
2. Outline how millipedes respond to the approach of their enemies.
3. Explain the function of the three types of labial glands in insects.
4. Explain the composition of an arthropodan cuticle.
5. Outline the role of three insect hormones which are involved in moulting.
6. Explain briefly the epidemiology of visceral leishmaniasis.
7. Define zoopropylaxis and explain how it reduces the spread of malaria.
8. Outline digestion in cray fish.

SECTION B – Answer any ONE question (30 marks)

9. Give a detailed account of the evolutionary diversity of insects.
10. Explain the impact of different types of fleas on human welfare.

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