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**University Examinations 2014/2015**

THIRD YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES

**SZL 2306: ARTHROPOD BIOLOGY**

**DATE: APRIL 2015 TIME: 2 HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Explain meaning of the following terms (6 marks)
2. Anthropophily
3. Nauplius
4. Metastriate
5. List the diagnostic features of the larvae of
6. *Simulium* sp (3 marks)
7. *Phlebotomus* sp (3 marks)
8. Write explanatory notes on the sub-phylum trilobita (3 marks)
9. Give a brief account of moulting in crustaceans (4 marks)
10. Explain the medical importance of culicine mosquitoes (5 marks)
11. Distinguish the class diplopoda from chilopoda (6 marks)

**QUESTION TWO (20 MARKS)**

Write an essay on myiasis

**QUESTION THREE (20 MARKS)**

Discuss in details the environmental-friendly methods of controlling arthropod populations

**QUESTION FOUR (20 MARKS)**

Discuss the resurgence of the jigger menace in Kenya as an arthropod biologist and suggest ways of curbing it

**QUESTION FIVE (20 MARKS)**

Describe and illustrate the internal anatomy of the cockroach