



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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**MAIN EXAMINATION**

**AUGUST - DECEMBER 2015 TRIMESTER**

**FACULTY OF SCIENCE**

**DEPARTMENT OF BIOLOGY**

**REGULAR PROGRAMME**

**BIO 205: GENERAL ENTOMOLOGY**

**Date: DECEMBER 2015**

**Duration: 3 Hours**

**INSTRUCTIONS: Answer Question ONE and ANY other THREE Questions**

- Q1. a) Explain the following mouth positions
- i Hypognathous position. (2 marks)
  - ii Prognathous position. (2 marks)
  - iii Opsitognathous position. (2 marks)
- b) Briefly describe types of metamorphosis in insects. (3 marks)
- c) Explain FIVE types of functional modification in insect legs. (5 marks)
- d) Explain briefly FIVE ways in which arthropods differ from annelids. (5 marks)
- e) Describe the endocrine centres in insects. (5 marks)
- f) State the characteristics of the following sub classes of insects
- i Apterigota. (3 marks)
  - ii Pterigota. (3 marks)
- Q2. Discuss the biological success of insects. (20 marks)

- Q3. Using relevant examples and illustrations discuss various type insect wings in insects. **(20 marks)**
- Q4. Describe the process of moulting insects. **(20 marks)**
- Q5. Discuss various methods of pest insect control. **(20 marks)**

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