



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

**A. M. E. C. E. A**

**MAIN EXAMINATION**

**JANUARY – APRIL 2015 TRIMESTER**

**FACULTY OF SCIENCE**

**DEPARTMENT OF NATURAL SCIENCES (BIOLOGY)**

**REGULAR PROGRAMME**

**BIO 205: GENERAL ENTOMOLOGY**

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<b>Date: April 2015</b>	<b>Duration: 2 Hours</b>
<b>Instructions: Answer Question ONE and any other TWO Questions.</b>	

- Q1. a) Define: (3 marks)
- i) Tagmatisation
  - ii) Entomology
  - iii) Insect
- b) List FIVE characteristics of insects that account for their success in their environment. (5 marks)
- c) List the THREE distinctive tagmala insects show. (3 marks)
- d) List FOUR different types of antenna in insects based on their modification. (2 marks)
- e) List the SIX segments of an insect leg. (3 marks)
- f) List two economic importance of flies. (2 marks)
- g) State THREE types of feeding insects. (2 marks)
- Q2. Explain both the beneficial effects and Detrimental effects of insects. (20 marks)
- Q3. a) State the Behavioral adaptation of termites and bees as social insects. (3 marks)
- b) Explain what social insects are? (3 marks)
- c) Distinguish between termites and ants. (3 marks)

- Q4. a) Explain the classification of the insects head according to the basis of the orientation with the mouth part. (10 marks)
- b) Describe the entire process of metamorphosis briefly. (10 marks)
- Q5. a) Draw a clearly and well labeled diagram of an insect of your choice. (10 marks)
- b) Discuss the eyes as the first structure located in the head (2 types). (10 marks)

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