



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

P.O. Box 62157
00200 Nairobi - KENYA
Telephone: 891601-6
Fax: 254-20-891084
E-mail: academics@cuea.edu

Date: April 2015	Duration: 2 Hours
-------------------------	--------------------------

Instructions: Answer Question ONE and any other TWO Questions.

- Q1. a) Define:
- i) Tagmatisation
 - ii) Entomology
 - iii) Insect
- (3 marks)**
- 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)**

END