



EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

FIRST SEMESTER EXAMINATIONS 2014/2015

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGRICULTURE AND HORTICULTURE AND BACHELOR OF SCIENCE RANGE
MANAGEMENT

ACP 202/AEB 213: AGRICULTURAL ENTOMOLOGY

DATE: DECEMBER 10, 2014

TIME: 10:30AM – 12:30PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE

- a) Outline the various classes under the phylum Arthropoda giving an example for each.
(5 marks)
- b) Briefly explain the FOUR main characteristics that distinguish the class insect.
(5 marks)
- c) Distinguish between primary and secondary segmentation in insect morphology.
(5 marks)
- d) Using a diagram illustrate the structures that are typical of a walking leg of an insect
(5 marks)
- e) State the FOUR glands of the alimentary canal in insects. (5 marks)
- f) Explain the role of saliva in different insects during digestion. (5 marks)

QUESTION TWO

Discuss the diversity of insects' antennae and use diagrams to illustrate. (20 marks)

QUESTION THREE

Write an essay on Biological success of insects giving examples to support your reasons.

(20 marks)

QUESTION FOUR

Describe in details the methods and equipment used by Entomologists to collect insects for study purposes.

(20 marks)

QUESTION FIVE

Write an essay on nutrition of insects.

(20 marks)

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