

2016/2017 ACADEMIC YEAR

FIRST SEMESTER EXAMINATION

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN HORTICULTURE AND BACHELOR OF SCIENCE IN ENVERONMENTAL CONSERVATION

ACP 202/213: AGRICULTURAL ENTOMOLOGY

DATE: NOVEMBER 29, 2016

TIME: 2:00-4:00

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE (30 MARKS)

a) Explain six distinguishing characteristic of arthropods.

(6 marks)

b) Briefly explain three adaptive factors which are attributed to insects success as a class of terrestial animals..

c) Differentiate between hemimetabolous and holometabolous insects

d) Explain four functions of saliva in the foregut of a cockroach.

(5 marks)

binordinate between nonlinetabolous and noionictabolous insect

(4 marks)

e) Explain the economic importance of arthropods.

(5 marks)

f) Using a well labeled diagram describe the structure of a generalized insect leg.

(6 marks)

QUESTION TWO (20 MARKS)

a) Briefly discuss five major methods of insect pest control.

(10 marks)

b) Describe the common trapping devices used in collection of insect pests.

(10 marks)



QUESTION THREE (20 MARKS)

a) Briefly explain the functions of wings. (6 marks)
b) Discuss the order Lepidoptera under the following sub-headings;

i) Distinguishing characteristics. (4 marks)
ii) Host crops. (4 marks)

c) Explain the role of hormones in molting and metamorphosis in insects. (6 marks)

QUESTION FOUR (20 MARKS)

a) Describe types of damages caused by insects to crops. (10 marks)b) Describe four modifications of the mouth parts in piercing and sucking insects. (10 marks)

QUESTION FIVE (20 MARKS)

a) Describe three types of pupae. (6 marks)
b) Explain four characteristics of the order coleoptera. (4 marks)
c) Explain the secondary functions of the insect exoskeleton. (10 marks)

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