

UNIVERSITY OF EMBU

2019/2020 ACADEMIC YEAR SECOND SEMESTER EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGED

ACP 202: AGRICULTUARAL ENTOMOLOGY

DATE: VOVEMBER 11, 2020

TIME: 2:00 PM - 4:00 PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions

QUESTION ONE (30 MARKS)

a) State Four (4) limitations of classifying arthropods

(4 marks

b) List four features that distinguish arthropods from other organisms.

(4 marks)

c) Describe the cuticle of the insect integument

(4 marks)

d) Distinguish between primary and secondary pests in storage

(2 marks)

e) Name two hormones involved in the moulting process and briefly explain their role

(4 marks)

f) Briefly describe the order Lepidoptera

(4 marks)

g) Draw and label the hind leg of the grasshopper

(4 marks)

h) Name four disadvantages of using the chemical method to control insect pests (4 marks)





QUESTION TWO (20 MARKS)

Discuss the type of plant injury caused by; a) biting and chewing b) piercing and sucking insects giving examples in each case (20 marks)

QUESTION THREE (20 MARKS)

Most farmers use one or more methods to control insect pests. Using relevant examples, explain how cultural method can effectively be applied to control crop pests (20 marks)

QUESTION FOUR (20 MARKS)

a) Insects are important arthropods. Discuss their success and usefulness in the ecosystem

(10 marks)

b) Briefly describe the structure and function of the insect's midgut

(5 marks)

c) Insects use plasma as a defensive mechanism. Qualify the statement

(5 marks)

QUESTION FIVE (20 MARKS)

Discuss the maize weevil (Sitophilus zeamais) and Angomous grain moth (Sitotroga cerealla) as major pests of storage detailing their life cycles and the damage they cause on stored products and their management (20 marks)

END



