



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE & DRYLAND AGRICULTURE

ACP 202: AGRICULTURAL ENTOMOLOGY

DATE: 05TH DECEMBER, 2017

TIME: 8.00 -10.00 AM

INSTRUCTIONS TO CANDIDATES

- a) Answer **ALL** questions in section A
- b) Answer any **TWO** questions in section B

Section A: Answer ALL questions (30 marks)

1. Giving examples, briefly describe the classes in phylum arthropoda (5 marks)
2. Explain the ways in which insects are beneficial to man (5marks)
3. Briefly describe the insect thorax (5 marks)
4. Write short notes on the complete-metamorphosis model of insect life cycle (5 marks)
5. Using a well labeled diagram, describe,
 - a) the insect leg (5 marks)
 - b) the male reproductive system of an insect (5 marks)

SECTION B: Answer any TWO questions (40 marks)

5. Discuss
 - a) the factors that have contributed to the great success of insects (10 marks)
 - b) the major components of integrated pest management (IPM) (10 marks)
6. Describe
 - a) the digestive system of an insect (10 marks)
 - b) the excretory system of an insect (10 marks)
7. Describe:
 - a) any five types of insect legs, clearly detailing their modifications to suit their mode of life (10 marks)
 - b) any five types of insect antennae (10 marks)