



(Knowledge for Development)

**KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR**

**FOURTH YEAR SECOND SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATIONS**

FOR THE DEGREE OF BACHELOR OF BIORESOURCE MANAGEMENT.

COURSE CODE: SZL 424

COURSE TITLE: APPLIED ENTOMOLOGY

DATE: Wednesday 10th February, 2020 **TIME:** 2:00 – 4:00 p.m.

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating:

1.

- a) State three genetic techniques of insect control 3marks
- b) Describe host plant resistance 4marks
- c) Explain the meaning of the following terms as used in pest control 3marks
- i. Economic damage
 - ii. Economic injury level
 - iii. Economic threshold
- d) Describe briefly the economic importance of *Prostephanus truncatus* 3marks
- e) Name the types of organisms used as biological control agents 3marks
- f) Differentiate between a parasite and a parasitoid 3marks
- g) Give reasons why many biologists choose to work with insects 3marks
- h) State three importance of insects in nature 3marks
- i) Explain four factors that enhance insecticide resistance 4marks
- j) What is a pest 1mark
2. Describe the factors that affect prevalence of insect pests 20marks
3. Foreign or introduced pests are more devastating than the local pests discuss 20marks
4. Describe the damage caused by insect pests with chewing and sucking mouthparts to crops 20marks
5. Write shorts on *Spodoptera exempta* and *Oligonychus coffeae* 20marks