



125

(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER
MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF BIOLOGY, BACHELOR OF
EDUCATION SCIENCE AND BACHELOR OF
AGRICULTURAL EDUCATION AND EXTENSION**

COURSE CODE: SZL424

COURSE TITLE: APPLIED ENTOMOLOGY

DATE: Tuesday 7th August, 2018 TIME: 2:00 -4:00 p.m.

INSTRUCTIONS TO CANDIDATES

Answer question **ONE** [1] and **ANY** other **TWO** [2] questions

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. (a) Explain how **haematophagous insect** pests locate their hosts (3mks)
(b) Explain **three ecological** effects of chemical pesticides to the environment (6mks).
(c) List **four features** of the chlorinated hydrocarbons. (4mks)
(d) Outline **three Principles** of pest management. (3 mks)
(e) State **four types** of botanicals. (4 mks)
(f) Differentiate between **mechanical** and **biological** transmission of a disease. (4mks).
(g) Name and state effects of **three pests** of stored products (6mks).
2. (a) Classify pests based on the number of **hosts attacked** (3 mks)
(b) Describe how **host plant- resistance** is achieved (9mks)
(c) Explain four **biological measures** adopted in control of pests (8mks)
3. (i) Explain three principles of **integrated pest management** (6mks).
(ii) Describe insect vectors of **public health importance** (14 mks)
4. Categorize pesticides based on their **chemistry** and **toxicology** (20mks)
5. (a) Describe the ecological groups of *Glossina spp.* (10 mks)
(b) Outline four morphological features of **simuliids** (4mks)
(c) Describe the **damaging effects** of: (6mks)
 - (i) *Cicadulina mbila*
 - (ii) *Busseola fusca*