



(Knowledge for Development)

**KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

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

**FOR THE DEGREE OF BACHELOR SCIENCE & BACHELOR OF
SCIENCE (BIOLOGY) AND (BIO-RESOURCE MANAGEMENT)**

COURSE CODE: SZL 411

COURSE TITLE: GENERAL ENTOMOLOGY


DATE: 2nd October, 2018

TIME: 11:30 -1:30 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. (i) List **three** types of antennae [3mks].
(ii) Explain the **types of larvae** found in insects. [(6mks)].
(iii) Briefly describe **three distinctive** features of **collembolans**. [6mks].
(iv) Explain four functions of **allelochemicals**. [4mks].
(v) Briefly describe the **circulatory** system of insects [6mks]
(vi) How does **metamorphosis** enhance abundance in insects? (5mks)
- 2 a. Define the term **territoriality** with regards to insects. [2mks]
b. Describe the **gaseous exchange** process in insects. [8mks]
c. Write brief notes on the body structures of the insects; namely: **head, thorax** and the **abdomen**. [10mks]
3. (a). List three **migration cues** of locusts. [3mks]
(b) Trace the origin of **tagmatization** in insects. (4mks]
(c) How do **social insects** differ from **social vertebrates**? [5mks]
(d) Explain the role of **thorax** as ambulatory structures in **orthopterans**. [8mks]
4. Discuss **polymorphism** in insects. [20mks]
5. Describe the **functionality** of the alimentary canal of **dipterans**. [20mks]