



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2022/23 ACADEMIC YEAR

FOURTH YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHEOR OF EDUCATION AND BACHELOR
AGRICULTURE EDUCATION AND EXTENSION**

COURSE CODE: SZL 411

COURSE TITLE: GENERAL ENTOMOLOGY

DATE: 17TH NOVEMBER 2022 TIME: 8.00 - 10.00 AM

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] Define [i] semiochemicals [ii] chrysalis [iii] protocebebrum. (3mks)
[b] What is the function of: [i] labrum [ii] pedipalps [iii] cerci. (3mks)
[c] Outline four functions of haemolymph. (4 mks)
[d] State three (3) types of pupae. (3mks)
[e] Briefly describe dipteran body morphology. (6mks)
[f] Differentiate between ametabolous and hemimetabolous types of metamorphosis.
(2mks)
[g] Briefly describe the peripheral nervous system of insects (6mks)
[h] How is oviposition controlled in insects? (3 mks)
2. Write brief notes on the different types of antennae in insects. (20 mks)
3. Write an essay a comparative insectan digestive system. (20 mks)
4. Describe the insects' exoskeleton. (20mks)
5. Discuss type of mouth parts in insects. (20 mks)