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(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2021/22 ACADEMIC YEAR
FOURTH YEAR FIRST SEMESTER

MAIN EXAMINATION

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

COURSE CODE: SZL 411

COURSE TITLE: GENERAL ENTOMOLOGY

DATE: 20TH MAY 2022

TIME: 9.00 – 11.00 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

QUESTION ONE

- [a] Define [i] tagmatization [ii] holometabolous [iii] pheromones. (3mks)
- [b] What is the function of: [i]haltere [ii] hamuli [iii]frenulum. (3mks)
- [c] Outline four (5) differences between apterygota and pterygota subclasses. (5 mks)
- [d] State three (3) types of pupae. (3mks)
- [e] Briefly describe lepidopteran body morphology. (5 mks)
- [f] Differentiate between isogonic and heterogonic types of growth. (2mks)
- [g] Briefly describe the visceral nervous system of insects (6mks)
- [h] How is metamorphosis controlled in insects? (3 mks)

QUESTION TWO.

Write brief notes on the body structures of the insects; namely: head, thorax and the abdomen. (20 mks)

QUESTION THREE

Write an essay on migration in insects. (20 mks)

QUESTION FOUR

Account for the relative abundance of insects in the ecosystem. (20mks)

QUESTION FIVE

Discuss the role of insects to human economics. (20 mks)