



(Knowledge for Development)

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

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

**FOR THE DEGREE OF BACHELOR OF BIORESOURCE
MANAGEMENT, EDUCATION SCIENCE, BSC BIOLOGY.**

COURSE CODE: SZL 411

COURSE TITLE: GENERAL ENTOMOLOGY

DATE: Monday 8th February, 2021. **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.

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|---|---------|
| a) Define the following terms | |
| i. Polyembryony | 1mark |
| ii. Paedogenesis | 1mark |
| iii. Parthenogenesis | 1mark |
| b) Give any three functions of antennae | 3marks |
| c) Explain the various head orientation | 3marks |
| d) Write short notes on the insect thorax | 4marks |
| e) Name three major regions of insect digestive system | 3marks |
| f) Explain why insects lack a transport system | 2marks |
| g) State four functions of Haemolymph | 4marks |
| h) State the function of the following | 3marks |
| i. Spiracles | |
| ii. Air sacs | |
| iii. tracheoles | |
| i) Name three general types of neurons | 3marks |
| j) Differentiate between viviparity and oviparity | 2marks |
| 2. Describe how insects are adapted to different modes of feeding | 20marks |
| 3. Describe the medical and veterinary importance of order Diptera | 20marks |
| 4. Giving examples, describe how insect wings are modified to perform various Functions | 20marks |
| 5. Describe the structure and function of excretory system in insects | 20marks |