



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2022/23 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER
MAIN EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AND BACHELOR OF
BIO-RESOURCE CONSERVATION**

COURSE CODE: SZL 111/114

COURSE TITLE: INVERTEBRATE BIOLOGY

DATE: 22ND DECEMBER 2022

TIME: 2.00 – 4.00 PM

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] Enumerate two [2] forms of a Cnidarian life cycle [2marks]
[ii] Differentiate between cleavage and gastrulation. [3mks]
[iii] List two [2] types respiratory surfaces in annelids [2mks]
[iv] State three [3] functions of a coelom [2mks]
[v] How does sexual reproduction occur in arthropods? [4mks]
[vi] Illustrate the essence of plathelminthes to human economics? [8mks]
- [iv] Describe the amoeboid locomotory process in a named typical protozoan. [8mks]
2. [a] Briefly describe the functionality mechanism of the flagellum. [4mks]
[b] How does the triploblastic body morphology form in the nematodes? [8mks]
[c] Cite three [3] insects and explain their medical importance. [8mks]
3. Write an essay on Phylum Echinodermata [20mks]
4. [a] How have the trematods led to food insecurity in the country? [4mks]
[b] Explain three [3] functions of an exoskeleton [6 mks]
[c] Describe the distinctive features of poriferans. [10mks]
5. Classify molluscs up to class level emphasizing their morphological features and cite one (1) example in each case. [20mks]