(*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

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 platehelminthes 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)