



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY AND BIORESOURCE CONSERVATION AND MANAGEMENT

COURSE CODE:

SZL 114/SZL 111

COURSE TITLE:

INVERTEBRATE BIOLOGY/BASIC ZOOLOGY

DATE:

15TH February, 2021.

TIME: 8:00 -10:00 a.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



| C D to a life avala | [2marks] |
|--|----------|
| 1. [a] Enumerate two [2] phases of a Protozoan life cycle | |
| [b] Differentiate between encystation and excystation. | [3mks] |
| [c] List three [3] types of cnidocytes | [3mks] |
| [d] State two [2] functions of a clitellum | [2mks] |
| [e] How does reproduction occur in Ascaris lumbricoides? | [4mks] |
| [f] How are protozoans important in human welfare? | [8mks] |
| [g] Describe the strobilation process in a named typical enidarian. [8mks] | |
| | |
| 2. [a] Briefly describe the mechanism of functioning of the protone | phridia. |
| | [4mks] |
| [b] How does the triploblastic body plan in the turbellarians ? | [8mks] |
| [c] Cite three species of the schistosomes and explain their medical | |
| importance. | [8mks] |
| 3. [a] Describe FOUR taxonomic features of the poriferans. | [8mks] |
| [b] Illustrate the life cycle of hookworms. [8mk | as] |
| [c] Show the damaging effects of nematodes to both flora and fauna. [4mks] | |
| | |
| 4. [a] State two functions of the trochal disc in the rotiferans. | [2mks] |
| [b] How have the cestodes led to food insecurity in the country? | [6mks] |
| [c] Cite two anthozoans. | [2mks] |
| [d] Describe the distinctive features of molluscs. | [10mks] |
| | |

5. Classify annelids up to class level emphasizing their morphological features

and cite one (1) example in each case.

[20mks]