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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER MAIN EXAMINATION (JAN-INTAKE)

**FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE AND
BSC IN AGED, BEE AND BAB.**

COURSE CODE: SZL 111/SZL114

COURSE TITLE: BASIC ZOOLOGY/INVERTEBRATE ZOOLOGY

DATE: Wednesday 12th May, 2021. **TIME:** 9:00 – 11:00 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



1. [i] State three (3) species of schistosomes [3mks]
[ii] What is the significance of a cyst in a protozoan life cycle [3mks]
[iii] Briefly describe amoeboid locomotion [4mks]
[iv] List four [4] distinctive features of scyphozoans. [4 mks]
[v] Describe open circulatory system in insects [5mks]
[vi] Explain three (3) types muscles for locomotion in turbellarians. [6mks]
[vii] Briefly describe asexual reproduction in Annelids [5mks]
2. (a) State the functions of the following: [3mks]
 - i) Cnidae
 - ii) Protonephridia
 - iii) Statocysts

b) State three general characteristics and four examples of protozoans. [7mks]

(c) Classify cnidarians up to class level emphasizing their morphological features and cite one (1) example in each case. [10mks]
3. [i] Show the damaging effects of nematodes to both flora and fauna. [8mks]
[ii].How are the platyhelminthes adapted to their parasitic mode of life? [7mks]
[iii] What is the economic value of protozoans to human economics? [5mks]
4. [a] Illustrate the life cycle of the hookworms. [10mks]
[b] Describe FOUR taxonomic tools of the poriferans. [10mks]
5. [i] Distinguish the polychaetes and oligochaetes. [10mks]
[ii] Describe the reproduction process in the annelids. [10mks]