



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER
MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR SCIENCE & BACHELOR OF
SCIENCE (BIOLOGY)**

COURSE CODE: SZL 111
COURSE TITLE: LOWER INVERTEBRATES

DATE: *11th January 2018* **TIME:** *9:00 -11:00 a.m.*

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



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1. (i) List **four** classes of phylum **Porifera**. [4mks]
(ii) State the functions of a **nematocyst**: [3mks]
(iii) Name **four species** of genus *Plasmodium*. [4 mks]
(iv) Explain the function a **clitellum**. [4mks]
(v) Describe **three** distinguishing features of **flagellates**. [6mks]
(vi) Explain the digestive process in the **foregut** of **Hirudineans** (6mks)
(vii) State **three** class of phylum **Coelentrata**. [3mks]
2. (i) State **four** common features among **platyhelminthes**
(ii) Categorize **platyhelminthes** up to class level citing one (1) example in each case. [10mks]
(ii) Explain how *Taenia solium* has led to **food insecurity** in Kenya. [6mks]
(iii) Explain how **schistosomiasis** is transmitted [4mks]
3. (a) Describe the **lifecycle** of a named **nematode**. [10mks]
(b) With examples, explain forms of reproduction in **Protozoans** [10ms]
4. (a) Describe the development of **triploblastic** body morphology in lower invertebrates. [10mks]
(b) Explain the process of Strobilation process in **Scyphozoans** [10 mks]
5. [i] Write short notes on the following modes of locomotion:
(a) Euglenoid [5mks]
(b) Ciliary [5mks]
(c) Amoeboid [5mks]
[ii] Briefly describe the **phagocytosis** process in a named organism of class **Sarcodina** [5mks]