



*(Knowledge for Development)*

# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR**

### **FIRST YEAR FIRST SEMESTER SUPPLEMENTARY/SPECIAL EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE (BIOLOGY AND BIO-  
RESOURCE MANAGEMENT)**

**COURSE CODE: SZL 111  
COURSE TITLE: LOWER INVERTEBRATES**

**DATE: 13/9/2017**

**TIME: 8:00 – 10:00 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



KIBU observes ZERO tolerance to examination cheating



1. [i] Describe **FIVE** features that have led the increased abundance of the trematodes. [10 mks]  
[ii] Explain how reproduction occurs in *Ascaris lumbricoides*. [4mks]  
[iii] Illustrate the **essence of protozoans** to human economics? [8mks]  
[iv] Describe the **strobilation process** in a named **typical cnidarian**. [8mks]
2. [a] Briefly describe the **functionality mechanism** of the **protonephridia**. [4mks]  
[b] Explain how the **triploblastic** body morphology is formed form in the **turbellarians**. [8mks]  
[c] Cite **three species of schistosomes** and **explain** their **medical** importance. [8mks]
3. [i] Describe **FOUR** salient features of the **poriferans**. [8mks]  
[ii] Illustrate the **life cycle** of a hookworm. [8mks]  
[iii] List the **damaging effects** of nematodes to both **flora and fauna**. [4mks]
4. [a] State **two** functions of the **trochal disc** in **rotiferans**. [2mks]  
[b] Explain how **cestodes** have led to **food insecurity** in Kenya? [6mks]  
[c] State 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]