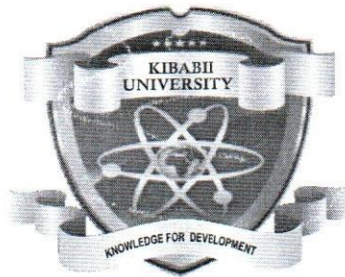


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*(Knowledge for Development)*

# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR**

### **SECOND YEAR SECOND SEMESTER MAIN EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF BIO-RESOURCE  
MANAGEMENT AND CONSERVATION**

**COURSE CODE: SZL 221**

**COURSE TITLE: FUNDAMENTALS OF AQUATIC ECOLOGY**

**DATE: FRIDAY 10<sup>TH</sup> August 2018**

**TIME: 9:00 – 11:00 a.m.**

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#### **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



**KIBU observes ZERO tolerance to examination cheating**

1. a) Define the following terms:

(5 mks)

i) Salinity

ii) DO

iii) Water quality

iv) TDS

v) Groundwater

b) Briefly explain the importance of inorganic nutrients to life in water. (5 mks)

c) Differentiate between phytoplankton and zooplankton. (5 mks)

d) How is river flow impacted by removal of riparian vegetation? (5 mks)

e) Briefly explain the characteristics of an aquatic environment. (5 mks)

f) What are the key linkages between water and deforestation? (5 mks)

2. Discuss how the agricultural and farming systems impact water quality. (20 mks)

3. Explain the anthropogenic impacts on water quality. (20 mks)

4. Write an essay on productivity of aquatic ecosystems. (20 mks)

5. Discuss the importance of aquatic systems to livelihoods. (20 mks)