



*(Knowledge for Development)*

# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR**

### **FOURTH YEAR SECOND SEMESTER MAIN EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE BIOLOGY/ BACHELOR OF  
EDUCATION SCIENCE**

**COURSE CODE:** SBT 422  
**COURSE TITLE:** AQUATIC BOTANY

**DATE:** Tuesday 10<sup>th</sup> November, 2020. **TIME:** 2:00 - 4:00 p.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

### Question One

- a) List three examples of Marine ecosystems (3 marks)
- b) List two types of aquatic ecosystems (2 marks)
- c) Describe any 3 Environmental problems that affect marine ecosystems (3marks)
- d) Highlight three basic types of freshwater ecosystems (3marks)
- e) Define the term (1mark)
- i. Littoral zone (1mark)
  - ii. Profundal zone (1mark)
  - iii. Riparian zone (1mark)
- f) Briefly describe three major functions of Aquatic ecosystems (3marks)
- g) Write short notes on the following: (1mark)
- i. Submersed leaves (1mark)
  - ii. Floating leaves (1mark)
  - iii. Emerged leaves (1mark)
- h) Describe Biodiversity (3marks)
- i) Briefly describe any three marine pollutants (2 marks)
- j) i. How does hypertrophy occur? (2 marks)
- ii. What is "bog" (2 marks)

### Question Two

Discuss the two types of aquatic ecosystems (20marks)

### Question Three

- i. Discuss the anatomical and structural adaptations of fresh water plants (10 marks)
- ii. Discuss the anatomical and structural adaptations of marine water plants (10marks)

### Question Four

- i. State 5 plant communities found in Aquatic Zone (10 marks)
- ii. State 4 plants communities found in Transitional Zone (8marks)
- iii. List any 2 carnivorous plants that are common in bogs (2marks)

### Question Five

Discuss Conservation and management of aquatic flora as natural resources (20marks)