



(Knowledge for Development)

**KIBABII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**2021 / 2022 ACADEMIC YEAR**  
**SPECIAL/SUPPLEMENTARY EXAMINATION**  
**FOR THE DEGREE OF BACHELOR OF EDUCATION.**

**COURSE CODE: SBT 422**

**COURSE TITLE: AQUATIC BOTANY**

**DATE: 24<sup>TH</sup> NOVEMBER 2022**

**TIME: 11.00 - 1.00 PM**

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**INSTRUCTIONS TO CANDIDATES**

Answer Question one (1) compulsory and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each. *Statistical tables for reference are appended*

TIME: 2 Hours



1. a) Briefly explain the different kinds of leaves in aquatic ecosystems (5 marks)
  - b) List five differences between aquatic ecosystems and terrestrial ecosystem (5 marks)
  - c) Briefly describe five levels of morphological organization in algae (5 marks)
  - d) List five different plants that occur in aquatic communities (5 marks)
  - e) Explain how the chemical factors affect the life in lotic ecosystem (5 marks)
  - f) Briefly discuss the zonation of algae in marine ecosystem (5 marks)
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2. Describe the physical and Biological characteristics of lentic and lotic aquatic ecosystems (20 marks)
  3. Discuss the Biodiversity; productivity; and economic uses of sea grasses (20 marks)
  4. Discuss the economic importance of mangroves in the coastal region (20 marks)
  5. Discuss the economic importance of wetlands in aquatic ecosystems (20 marks)