



(Knowledge for Development)

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KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
FOURTH YEAR SECOND SEMESTER
MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY,
BACHELOR OF EDUCATION SCIENCE AND BACHELOR
AGRICULTURE EDUCATION AND EXTENSION

COURSE CODE: SBT 422
COURSE TITLE: AQUATIC BOTANY

DATE: WEDNESDAY 1ST August, 2018. **TIME:** 9:00 – 11:00 a.m.

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 (3marks)
- b) List two types of aquatic ecosystems (3marks)
- c) Describe any 3 environmental problems that affect marine ecosystems (3marks)
- d) Highlight three basic types of freshwater ecosystems (3marks)
- e) Define;
 - 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:
 - i. Submersed leaves (1mark)
 - ii. Floating leaves (1mark)
 - iii. Emerged leaves (1mark)
- h) Explain the meaning of the term "biodiversity" as used in aquatic botany (3marks)
- i) Briefly describe any three marine pollutants (3marks)
- j) Define the following terms as used in aquatic botany
 - i. Hypertrophy (1.5marks)
 - ii. Bog (1.5marks)

Question two

Discuss the two types of aquatic ecosystems (20marks)

Question three

Discuss the anatomical and structural adaptations of fresh and marine water plants (20 marks)

Question four

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

Question five

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