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(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2022/2023 ACADEMIC YEAR

FIRST YEAR 1ST SEMESTER MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN: AGRICULTURAL
EDUCATION AND EXTENSION, AGRICULTURAL BIOTECHNOLOGY,
AGRICULTURAL ECONOMICS, BIOLOGY AND BACHELOR OF
EDUCATION SCIENCE**

COURSE CODE: SBT 100/SBT 111/SBT 114

COURSE TITLE: BASIC BOTANY/SURVEY OF PLANT
KINGDOM/GENERAL BOTANY

DATE: 19TH DECEMBER 2022

TIME: 2.00 – 4.00 PM

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one 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 1

- a) Describe with an illustration the structure of Spirogyra. (5 marks)
- b) Distinguish between zoospores and aplanospores. (2 marks)
- c) Differentiate between plasmogamy and karyogamy. (3 marks)
- d) Describe the process of budding in yeast. (5 Marks)
- e) Highlight the key adaptations in Bryophytes. (5 marks)
- f) Elucidate the major differences between pteridophytes and flowering plants. (5 marks)
- g) Give the major characteristics of Coniferophyta. (5 marks)

Question 2

Discuss the vegetative and sexual methods of reproduction in algae. (20 Marks)

Question 3

Discuss the economic importance of lichens. (20 marks)

Question 4

Discuss classification in gymnosperms. (20 Marks)

Question 5

Highlight the key characteristics of angiosperms. (20 Marks)