



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

FIRST YEAR 1ST SEMESTER SPECIAL/SUPPLEMENTARY 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: GENERAL BOTANY/SURVEY OF THE PLANT
KINGDOM/BASIC BOTANY

DATE: 15TH JULY 2022

TIME: 11.00 -1.00 PM

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) Distinguish between plasmogamy and karyogamy. (2 Marks)
- b) Differentiate between pure and applied botany giving an example in each case. (4 Marks)
- c) State four salient characteristics that distinguish fungi from plants. (4 Marks)
- d) Explain the symbiotic relationship between lichens and fungi. (5 Marks)
- e) Describe double fertilization in angiosperms. (5 Marks)
- f) State the key characteristics of Euglenophyta. (5 Marks)
- g) Differentiate between isogamy and anisogamy. (2 Marks)
- h) Describe the process of budding in yeast. (3 Marks)

QUESTION TWO

Using a well labeled diagram describe the fine structure of lichens (20 Marks)

QUESTION THREE

Describe the characteristics of bryophytes. (20 marks)

QUESTION FOUR

Discuss the economic importance of algae. (20 Marks)

QUESTION FIVE

Discuss classification in gymnosperms. (20 Marks)