



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

UNIVERSITY EXAMINATIONS

2021 / 2022 ACADEMIC YEAR

**MAIN EXAMINATIONS
WEBUYE CAMPUS**

**FIRST YEAR SCHOOL BASED FIRST SEMESTER
EXAMINATIONS**

**FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN EDUCATION SCIENCE**

COURSE CODE: SBN 111

COURSE TITLE: SURVEY OF THE PLANT KINGDOM

DATE: THURSDAY, 21ST APRIL 2022

TIME: 9:00 – 11:00 A.M.

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and ANY TWO selected from section B

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over. ►

SECTION A (SHORT ANSWER QUESTIONS, 40 MARKS)

1. Distinguish between biological classification and Biosystematics (4 marks)
2. Give two similarities between phylogenetic system and the natural system of classification of plants (4 marks)
3. Outline four applications of algae (4 marks)
4. Give the common name of chrisophyta, phaeophyta, rhodophyta and cyanobacteria. (4 marks)
5. Give the functions of the two partners that comprise the lichen (4 marks)
6. Highlight any four distinguishing characteristics of fungi. (4 marks)
7. Give any two reasons that indicate that Angiosperms are more developed compared to Bryophytes (4 marks)
8. Give two differences between monocotyledonous plant leaves and the dicotyledonous plant leaves. (4 marks)
9. Maize plant and bean plant differ in their root structure, Explain. (4 marks)
10. Outline the purpose of the reduced surface area in xerophytes (4 marks)

SECTION B (ESSAY QUESTIONS, 30 MARKS)

9. Discuss the differences of members of Bryophyta compared to those of Pteridophyta (15 Marks)
10. Discuss the distinguishing characteristics of a pine tree (15 marks)
11. Discuss the process of double fertilization in angiosperms (15 marks)