



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS 2021/2022
ACADEMIC YEAR**

FIRST YEAR FIRST SEMESTER

**SCHOOL OF NATURAL RESOURCE, TOURISM AND
HOSPITALITY**

**BACHELOR OF SCIENCE IN WILDLIFE RESOURCE
MANAGEMENT**

COURSE CODE: SFM 1104-1

COURSE TITLE: SURVEY OF PLANT KINGDOM

DATE: 1ST APRIL 2022

TIME: 14:30-16:30PM

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in section **A** and any other **THREE** in section **B**.

This paper consists of 3 printed pages. Please turn over

SECTION A (20 MARKS): ANSWER ALL QUESTIONS

- 1(a) Briefly, explain plant taxonomic characteristics (4 Marks)
- (b) Differentiate between sexual and asexual reproduction in plants using illustrations where possible (4Marks)
- (c) Describe the taxonomic components giving some details or illustrations where possible (4Marks)
- 2 (a) State the main characteristics of identifying angiosperms? (3 Marks)
- (b) Outline plant binomial nomenclature system, citing two examples. (3Marks)
- (c) Give the main characteristics of gymnosperms (2Marks)

SECTION B (30 MARKS): ANSWER ANY THREE QUESTIONS

- 3 (a) Explain the role of plants in an ecosystem that includes herbivores and carnivores (4Marks)
- (b) Discuss in details the importance of plant taxonomy (6Marks)
- 4 (a) Define the following classification systems;
- (i) Artificial system
 - (ii) Natural system
 - (iii) Phylogenetic (6Marks)
- (b) Differentiate between angiosperms and gymnosperms using specific labeled illustrations where possible. (4Marks)

5 (a) Discuss the environmental factors that affect plant growth.

(6 Marks)

(b) Discuss any four “leave-arrangement” used to categorize plants into groups.

(4Marks)

6 (a) Write short notes on the following terms:

(i) Morphological species concept

(6 Marks)

(ii) Biological species concept

(4 Marks)

(b) Sketch and label the main morphological features of the reproductive part of flowering plants.

(10 Marks)