



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
FIRST YEAR FIRST SEMESTER**

**FOR
THE DEGREE OF BACHELOR SCIENCE, ANIMAL
HEALTH SCIENCES**

**COURSE CODE: AHP 1104
COURSE TITLE: BOTANY**

DATE: 4TH DECEMBER, 2019

TIME: 0830 – 1030HRS

Instructions

Answer **ALL** questions in section **A** and any other **TWO** questions in section **B**.
Illustrate your answers with diagrams and give examples where appropriate.

SECTION A (30 MARKS): ANSWER ALL QUESTIONS

1. State the differences between a prokaryote and a eukaryote. **(3 marks)**
2. Describe the cell theory. **(3 marks)**
3. Briefly describe the process of mitosis. **(3 marks)**
4. With the aid of diagrams, differentiate between a monocot stem and a dicot stem. **(3 marks)**
5. Draw and label a cross section of a leaf. **(3 marks)**
6. Describe the various fruits based on their structure and type. **(3 marks)**
7. Distinguish between bryophytes and pteridophytes. **(3 marks)**
8. Describe briefly the major plant physiological processes. **(3marks)**
9. Describe three types of plastids. **(3 marks)**
10. Describe various stem types exhibited by plants. **(3 marks)**

SECTION B (40 MARKS): ANSWER ANY TWO QUESTIONS

11. As a botanist, describe how you would use leaves as plant identifiers. **(20 marks)**
12. With illustrations describe the ultrastructure of a plant cell. **(20 marks)**
13. Plant growth and geographical distribution is greatly affected by environmental factors. Discuss. **(20 marks)**
14.
 - a. Identify the scientific breakthroughs derived from the study of plants. **(10 marks)**
 - b. Discuss the ways in which plants can be exploited as animal feed. **(10 marks)**

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