



MAASAI MARA UNIVERSITY

UNIVERSITY EXAMINATIONS 2021/2022

**FIRST YEAR FIRST SEMESTER EXAMINATION
FOR
THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL HEALTH AND
PRODUCTION**

AHP 1106-1: BOTANY

DATE:

TIME:

Instructions

Answer **ANY TEN questions**. Illustrate your answers with diagrams and give examples where appropriate.

ANSWER any TEN QUESTIONS (50 Marks)

1. Describe the significance of double fertilization. **(5 marks)**

2. Explain the three-domain system of classification. **(5 marks)**

3. Describe the aestivation in the perianth of flowers. **(5marks)**

4. Explain the formation of a female gametophyte in angiosperms. **(5 marks)**

5. Describe any **FIVE** types of modified roots in plants. **(5marks)**

6. Explain why vascular plants are more successful on land than nonvascular plants. **(5 marks)**

7. Using suitable diagrams, describe the main types of phyllotaxy **(5 marks)**

8. Explain why there are no fruits in gymnosperms. **(5marks)**

9. Briefly, describe the contribution of the following botanists to the development of plant taxonomy. **(5 marks)**

a) Theophrastus (370-385 B. C.)

b) John Ray (1627-1705)

c) Carolus Linnaeus (1707-1778)

d) Aristotle (384-332 B.C.)

10. Describe the life cycle of a typical moss plant. **(5 marks)**

- 11.** State any **FIVE** salient features of the International Code of Botanical Nomenclature (ICBN). **(5marks)**
- 12.** Outline the major events in the life cycle of a named Pteridophyte **(5 marks)**
- 13.** Describe the structural components of a chloroplast. **(5 marks)**
- 14.** Define the following terms in microscopy. **(5 marks)**
- a) Numerical aperture **(2 marks)**
 - b) Resolution **(2 marks)**
 - c) Magnification **(1mark)**
- 15.** Explain the binomial system of nomenclature by using examples and classify an organism. **(5 marks)**

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