MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER

SCHOOL OF PURE APPLIED AND HEALTH SCIENCES
BACHELOR OF EDUCATION SCIENCE

COURSE CODE: BOT 3110-1

COURSE TITLE: TAXONOMY OF ANGIOSPERMS

DATE: 7/12/2023   **TIME: 1100-1300 HRS**

INSTRUCTIONS

- Answer **All** questions in **Section A** and **ANY TWO** in **Section B**
- Illustrate your answers with suitable diagrams and give appropriate examples wherever necessary

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1. Explain how does Bentham and Hooker system differ from Hutchinson's system of plant classification **(3marks)**
2. Explain the meaning of each of the following terms as used in taxonomy; **(3marks)**

    a) Identification **(1mark)**
    b) Nomenclature (**1mark**)
    c) Classification **(1mark)**

3. List **six** (6) Salient features of Engler and Prantl's system of classification **(3marks)**
4. Explain some of the evolutionary adaptations of flowering plants. **(3 marks)**
5. State any three ways of identifying plants. **(3marks)**
6. Using suitable examples, describe the main types of phyllotaxy. **(3 marks)**
7. Describe briefly the biological concept of species. **(3 marks)**
8. State principles that Hutchinson laid down to interpret the primitive or advanced status of angiosperms. **(3marks)**
9. State areas in which current taxonomic activities are concentrated. **(3marks)**
10. State reasons for studying angiosperm taxonomy. **(3marks)**

SECTION B: Answer Any TWO questions

11. Discuss SIX (6) principles that govern the International Code for Botanical Nomenclature (ICBN) **(20 marks)**

11. Give a detailed account of standard specimen collection procedure. **(20 marks)**
12. Discuss sources of taxonomic evidences used in classifying angiosperms. **(20 marks)**
13. Discuss the process of double fertilization in angiosperms **(20 marks)**

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