



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER SCHOOL OF EDUCATION BACHELOR OF EDUCATION (SCIENCE)

COURSE CODE: BOT 3110

COURSE TITLE: TAXONOMY OF ANGIOSPERMS

DATE: 4TH DECEMBER, 2018

TIME: 0830 - 1030 HRS

INSTRUCTIONS TO CANDIDATES

- (a) Answer ALL the Questions in Section A**
- (b) Answer ANY TWO Questions in Section B**

This paper consists of 2 printed pages. Please turn over.

SECTION A: ANSWER ALL QUESTIONS (30 MARKS)

1. Briefly explain the main issues in biological species concept (3marks)
2. Briefly explain the meaning of each of the following terms in taxonomy;
 - a) Homoplasy (1mark)
 - b) Author citation (1mark)
 - c) Tautonym (1mark)
 - d) Apomorphy (1mark)
3. Briefly explain the relationship of taxonomy with other Botany disciplines (3marks)
4. Briefly explain the blossoming of taxonomy during renaissance period. (4marks)
5. State any three ways of identifying plants. (3marks)
6. Briefly describe the use of a holotype in taxonomy. (5marks)
7. State any three economic importance of family Poaceae. (4marks)
8. Briefly describe the 'supra species' categories. (3marks)
9. State the areas in which current taxonomic activities are concentrated. (3marks)

SECTION B: Answer Any TWO questions (40 marks)

10. a) Explain the importance of herbaria to a taxonomist. (6marks)
b) Discuss the characteristics family Asteraceae with aid of specific examples of its members. (14marks)
11. a) Briefly describe the contributions of Theophrastus to Plant Taxonomy. (8marks)
b) Explain the core principles of International Code of Botanical Nomenclature (12marks)
12. a) Briefly describe the concept of the family as used in taxonomy. (10marks)
b) Describe the steps in construction of a dichotomous key. (10marks)
13. a) Briefly explain the aspects of publication of botanical names. (10marks)
b) Discuss the importance of Angiosperm taxonomy in vegetation management. (10marks)

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