

202



(Knowledge for Development)

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

SECOND YEAR FIRST SEMESTER

MAIN EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY,
AGRICULTURAL EDUCATION AND EXTENSION, AND BACHELOR OF
EDUCATION SCIENCE.**

**COURSE CODE: SBT 211/211.
COURSE TITLE: PLANT TAXONOMY/PLANT TAXONOMY
AND SYSTEMATICS.**


DATE: 3RD FEBRUARY 2022

TIME: 2.00 – 4.00 PM

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over 
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QUESTION ONE

- a. With an example, distinguish between a homonym and a tautonym (4 Marks).
- b. Define the following terms (3 Marks).
 - i. Type specimen
 - ii. Holotype
 - iii. Lectotype
- c. Explain author citation in nomenclature (4 Marks).
- d. Explain the essential requirements for plant nomenclature (4 Marks).
- e. State the main objectives of plant systematics (4 Marks).
- f. Illustrate a typical *Compositae* flower (4 Marks).
- g. What are the problems in current taxonomic methods (3 Marks).
- h. With a character example explain possible forms of character traits in taxonomy (4 Marks).

QUESTION TWO

Discuss the history of plant classification indicating the key milestones of each phase. (20 Marks).

QUESTION THREE

Discuss modern methods in plant taxonomy (20 Marks).

QUESTION FOUR

Describe the following plant families *Asteraceae*, *Fabaceae* and *Apiaceae*. (20 Marks).

QUESTION FIVE

Write an essay on herbarium techniques (20 Marks).