



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

SECOND YEAR 1ST SEMESTER MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY,
BACHELOR OF SCIENCE IN BIORESOURCE MANAGEMENT,
BACHELOR OF EDUCATION SCIENCE AND BACHELOR
AGRICULTURE EDUCATION AND EXTENSION**

COURSE CODE: SBT 211

COURSE TITLE: PLANT TAXONOMY

DATE: 22nd December 2017

TIME: 11:30 – 1:30 p.m.

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



KIBU observes ZERO tolerance to examination cheating

QUESTION ONE

- (a). Explain three major areas that current plant taxonomic activities largely concentrate on (5 marks)
- (b). Illustrate a typical Asteraceae flower (5 marks)
- (c). Comment on author citation in nomenclature (5 marks)
- (d). State the disadvantages of using the indented key (2 marks)
- (e). What are the problems encountered in modern methods of taxonomy? (3 marks)
- (f). Distinguish between the following terms "Holotype", "Lectotype", "Isotype" (3marks)
- (g). What are the contributions of Theophrastus to modern day classification? (4 marks)
- (h). Outline the key points of the Englerian evolutionary principles that were challenged by the Ralian school (3 marks)

QUESTION 2

Describe the procedure for preparing plant taxonomic keys (20 marks)

QUESTION 3

Discuss phylogenetics and cladistics as methods in plant taxonomy (20 marks)

QUESTION 4

Describe the procedure of preparing a cladogram in plant taxonomy (20 marks)

QUESTION 5.

Discuss the history of plant taxonomy highlighting the notable contributions of each phase to taxonomy. (20 marks)