



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF MASTERS OF SCIENCE IN BOTANY [PLANT
TAXONOMY AND ECONOMIC BOTANY]**

MAIN CAMPUS

SBT 839: TAXONOMIC DATA MANAGEMENT

Date: 22nd April, 2016

Time: 8.30 - 11.30am

INSTRUCTIONS:

- Answer ALL Questions in Section A and any other THREE in Section B.

SECTION A [30 MARKS]

- 1) a. Outline queries that describe the: "class" specimen of *metadata* in DNA taxonomy (5mks)
b. Elucidate the classes of taxonomic databases (5mks)
c. i). Define the term "taxonomic data" (1mk)
c. ii). Describe the forms in which taxonomic data can be expressed (4mks)
- 2) a. Describe the database management systems used in taxonomy (5mks)
b. Describe any five aspects of data protection in taxonomy (5mks)
c. Explain how to undertake literature search for taxonomic data (5mks)

SECTION B [30 MARKS]

1. Describe the procedure of setting up a database in taxonomy (10 mks)
2. Describe the procedure of constructing a Cladogram from taxonomic data (10 mks)
3. Discuss the fundamentals of data management in taxonomy (10 mks)

4. Discuss database management models used in systematics (10 mks)
5. Discuss the management of Molecular taxonomic data (10 mks)