

C1



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

**FIRST YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE OF MASTER OF SCIENCE IN
BOTANY (MICROBIOLOGY AND PLANT PATHOLOGY)**

MAIN CAMPUS

SBT 801: METHODS AND TECHNIQUES IN BOTANY

Date: 14th February, 2018

Time: 12.00 - 3.00pm

INSTRUCTIONS:

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



SECTION A: COMPULSARY QUESTIONS [15 MARKS EACH]

1. Discuss the following:
 - a. Electrophoresis (3mks)
 - b. Gas chromatography (3mks)
 - c. Centrifugation (3mks)
 - d. Spectrophotometer (3mks)
 - e. Microtomes (3mks)

2. Discuss the following as used in scientific methods.
 - a. interpretation (3mks)
 - b. prediction (4mks)
 - c. experiment (4mks)
 - d. repetition (4mks)

SECTION B: [10 MARKS EACH]

3. Discuss experimental methods of calorimetry. (10 mks)
4. Explain how you will determine the pH and EC in a water sample using electrode probes. (10 mks)
5. Describe the main features of AAS. (10 mks)
6. Describe the information that must be contained in a field record. (10 mks)
7. Describe remote sensing and its techniques. (10 mks)