



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF
SCIENCE

SBT 502: ADVANCED BOTANICAL TECHNIQUES

DATE: THURSDAY, 29TH MARCH 2012

TIME: 9.00 A.M. – 12.00 P.M.

INSTRUCTIONS: Answer any Four (4) questions.

Use illustrations where appropriate.

1. Discuss the preparation of fragile plant specimens for light microscopy. How is it different from that of electron microscopy?
2. Discuss the preparation and pH determination of ecological materials.
3. Briefly discuss the following:-
 - a) Isolation of pure culture of bacteria from infected plant tissue.
 - b) Antibiotics and fungicides used in culture media.
4. (a) Write an essay on: Partition Chromatography.
(b) Use of Punnet squares, Branching diagrams and Pedigree charts to analyse results of various crosses in genetics.
5. Discuss various methods of DNA sequencing.
