



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE

SBT 502: ADVANCED BOTANICAL TECHNIQUES

DATE: FRIDAY, 25TH NOVEMBER 2011

TIME: 9.00 A.M. – 12.00 P.M.

INSTRUCTIONS:

Answer any four (4) Questions.

1. Discuss Polymerase Chain Reaction (PCR) technique and its application in molecular research.
2. Briefly discuss sterilization methods used in a laboratory.
3. Write an essay on the working and preparation of specimens for electron microscopy.
4. Discuss the properties and preparation of solutions used in various biological disciplines.
5.
 - a. “Disposal of radioactive waste is as important as handling in the laboratory and must be controlled”. Discuss this statement with reference to the Kenyan situation. Cite the sources of the radioactive waste.
 - b. Giving detailed examples, distinguish among the four types of chromatographic techniques.
