



EMBU UNIVERSITY COLLEGE

(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

TRIMESTER EXAMINATIONS 2013/2014

**SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE AND
BACHELOR OF SCIENCE IN BIOLOGY**

SBL 202: LABORATORY TECHNIQUES

DATE: AUGUST 11, 2014

TIME: 2.00 - 4.00PM

INSTRUCTIONS:

Answer ANY TEN Questions (7 Marks each)

1. Suppose you are provided with two large rooms for a biology lab in a school. Describe the arrangement you would make to accommodate the necessary features.
2. Distinguish between wet heat and dry heat sterilization.
3. Explain the use of centrifuges in a biology laboratory.
4. Explain the working principle of a colorimeter.
5. Outline the drawbacks of inoculation without safety cabinets.
6. Describe the various processes of preserving plant specimens.
7. Outline the methods used in sampling aquatic and terrestrial invertebrates.
8. List the types of microtomes, stating the disadvantages of each.
9. Outline the methods of collecting weather data.
10. Describe four (4) common microscopes used in a biology laboratory.
11. Outline the techniques of slide fixation.
12. List the main animal and plant phyla.

---END---