



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE

SZL 105: LABORATORY METHODS AND TECHNIQUES IN ZOOLOGY

DATE: FRIDAY 16TH DECEMBER 2011

TIME: 8.00 A.M – 10.00 A.M

INSTRUCTIONS:

Answer ALL questions in Section A and any ONE question in Section B.

SECTION A (40 MARKS)

Answer ALL questions (40 marks each)

1. Describe the appropriate sterilization of the following in the laboratory.
 - a) Forceps
 - b) Laboratory benches
2. Discuss briefly the handling and use of centrifuges
3. Outline five characteristics of an ideal disinfectant.
4. Using examples, outline the classification of organisms based on their hazard risk.
5. With the aid of a diagram describe the working principle of a class II Bio- Safety cabinet.
6. Explain the prohibitive signs displayed in the laboratory.
7. Give the significance of labeling laboratory specimens and reagents
8. Explain the handling and storage of flammable chemicals.

SECTION B : ESSAY QUESTION (TOTAL 30 MARKS)

9.
 - a) Explain in details the World Health Organization classification of laboratories.
 - b) Describe the safety requirements of ONE of the laboratory classes outlined in 9(a) above
 - c) Describe the collection, processing and preservation of the following laboratory specimens;
 - a) Stool
 - b) Blood samples
 - d) Write an essay on management of biomedical laboratory.