



A Constituent College of Kenyatta University

**UNIVERSITY EXAMINATIONS 2010/2011 ACADEMIC YEAR**

**INSTITUTIONAL BASED PROGRAMME**

**1<sup>ST</sup> YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF  
EDUCATION (SCIENCE)**

**COURSE CODE/ TITLE: SZL 105: LABORATORY METHODS AND  
TECHNIQUES IN ZOOLOGY**

**END OF SESSION II**

**DURATION: 3 HRS**

**DAY/TIME: MONDAY 7.00AM-10.00AM**

**DATE: 01.08.2011-H1**

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**INSTRUCTIONS:**

1. Answer ALL questions in Section A and any Two questions in Section B

**ANSWER ALL QUESTIONS IN SECTION A**

**(40MARKS)**

**Question One**

Outline the duties and responsibilities of a laboratory technologist in charge of a Zoology laboratory.

**(5marks)**

**Question Two**

Highlight five (5) aspects of laboratory management.

**(5marks)**

**Question Three**

a) Define a biological hazard

**(2marks)**

b) Briefly explain four forms of biohazards.

**(4marks)**

#### **Question Four**

Explain five general design requirements that suit a Zoology laboratory. **(5marks)**

#### **Question Five**

- a) Differentiate between dry and wet preservation of specimens. **(4marks)**
- b) State the purpose of proper record keeping in the laboratory. **(4marks)**

#### **Question Six**

State the specific rules and regulations applicable to the observance of proper clothing and personal hygiene in the laboratory. **(5marks)**

#### **Question Seven**

Write short notes on the following techniques.

- i) Fixation of tissues **(3marks)**
- ii) Embedding of tissues **(3marks)**

### **SECTION B. ANSWER ANY TWO QUESTIONS. (30MARKS)**

#### **Question Eight**

Discuss the keeping and maintenance of different types of laboratory inventory. **(15marks)**

#### **Question Nine**

Describe any five methods and/or suitable equipment used for collecting zoological specimens. **(15marks)**

#### **Question Ten**

Discuss the procurement, use, storage and safe disposal of laboratory chemicals. **(15marks)**