



*(Knowledge for Development)*

# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR**

### **FIRST YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF EDUCATION IN  
AGRICULTURAL EDUCATION AND EXTENSION**

**COURSE CODE:** SBL 100

**COURSE TITLE:** LABORATORY PRACTICE, BIOSAFETY AND  
BIOETHICS

**DATE:** 5<sup>TH</sup> February, 2021

**TIME:** 11:00 - 1:00 p.m.

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#### **INSTRUCTIONS TO CANDIDATES**

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 3 Hours

This paper consists of 2 printed pages. Please Turn Over 

KIBU observes ZERO tolerance to examination cheating

- Q1 (i) Define the following terms  
a) laboratory  
b) Risk assessment  
c) Clinical pathology laboratory  
d) Building code  
e) Quality manual (5 marks)
- (ii) Outline factors addressed by Quality Management System (5 marks)
- (iii) Explain the general goals of a Biological Sciences laboratory. (5 marks)
- (iv) Explain the 'fire triangle' (5 marks)
- (v) Distinguish between flexible laboratory interiors and permanent laboratories interiors (5 marks)
- (vi) Write short notes on Workplace Hazardous Materials Information System (WHMIS) (5 marks)
- Q2 As the Virologist in charge, you receive blood samples from a patient allegedly infected with *Hepatitis A*. Describe the biosafety level containment laboratory you will use to handle the samples. (20 marks)
- Q3 (a) Describe the hazards commonly encountered in biology laboratories (10 marks)  
(b) Discuss how the hazards in 3 (a) above can be prevented. (10 marks)
- Q4 Describe Material Safety Data Sheets (20 marks)
- Q5 Describe the approaches employed in assessing biological risks. (20 marks)