



(Knowledge for Development)

KIBABII UNIVERSITY UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER SUPPLEMENTARY/SPECIAL EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE IN GRICULTURAL EDUCATION AND EXTENSION, BIOLOGY, BIORESOURCE AND CONSERVATION

COURSE CODE:

SBL 100/SBL 112

COURSE TITLE:

LABORATORY

PRACTICE,

SAFETY

AND

BIOSAFETY.

DATE: FRIDAY 24TH SEPTEMBER, 2021

TIME: 8:00 - 10:00 a.m.

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: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

f) Material Safety Data Sheets (MSDS) (5 marks) g) Personal Protective Equipment (PPE) Enumerate the types of laboratories in Biological Sciences (5 marks) (vii) Define the following terms (iii) a. laboratory b. Quality management system c. Risk assessment d. Laboratory Associated Infections (5 marks) e. Fire drill List and explain the type of fire extinguishers and the fires they extinguish (iv) (5 marks) Explain some of the physical conditions that may require first aid. (5 marks) (v) State factors that must be part of the quality management of facilities and (vi) (5 marks) equipment in the laboratory As a Scientist in charge of Microbiology laboratory. You have received sputum samples Q2 from a patient allegedly suffering from Tuberculosis caused by Mycobacterium tuberculosis. Describe the biosafety level containment laboratory you will use to handle (20 marks) the sample. Discuss the causes and prevention of: Q3 (10 marks) a) Biological hazards (10 marks) b) Control of biological hazards You have been instructed to draft a Standard Operating Procedure (SOP) for Storage of Q4 flammable chemicals. Outline the general format/outline of the report. (20 marks) Discuss some of the safety aspects that have been addressed in Biological and Q5 Agricultural Sciences laboratories of Kibabii University. (20 marks)

Explain the following terms

Q1 (i)