



(Knowledge for Development)

### **KIBABII UNIVERSITY**

# UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

## FOURTH YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE

COURSE CODE:

**SBL 423** 

**COURSE TITLE:** 

APPLIED MICROBIOLOGY AND BIOTECHNOLOGY

DATE:

15/10/2018

TIME: 11:30 - 1:30 P.M

#### INSTRUCTIONS TO CANDIDATES

Answer question **ONE** [1] and **ANY** other TWO [2] questions in this paper TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBUCO observes ZERO tolerance to examination cheating

### **Question 1**

a). Define the following as used in microbiology

i). Bacterial leaching

(4 MARKS)

ii). Nanoparticles

(2 MARKS)

iii). Biofertilizer

(3 MARKS)

iv). Delivery capsule

(3 MARKS)

b). Explain the importance various compounds produced by fungi in medicine

(6 MARKS)

c). List members of the kingdom monera that are distinct in character and useful in

medicine

(8 MARKS)

c). State two uses of virus like particles in modern medicine

(4 MARKS)

**Question 2** 

Explain how micro-organisms are beneficial in the field of medicine

(20 MARKS)

**Question 3** 

Explain the microbial production of energy and pharmaceutical products

(20MARKS)

**Question 4** 

Explain the application of micro-organisms in industries

(20 MARKS)

Question 5

Discuss the utilization of microorganisms as food.

(20MARKS)