

200



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER
MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE BIOTECHNOLOGY

COURSE CODE: SBL 422

COURSE TITLE: BIOLOGICAL CONSERVATION

DATE: Tuesday 10th November, 2020. **TIME:** 9:00 -11:00 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

Question 1

(4 Marks).

a. Define the following terms:

i) Carrying capacity

ii) Buffer zones

b. Explain the factors that influence productivity in an ecosystem. (4 Marks).

c. Describe the main principles of landscape design. (4 Marks).

d. Outline the components of biodiversity. (4 Marks).

e. State the factors that are responsible for causing threat to biodiversity. (5 Marks).

f. What are the benefits of biodiversity conservation? (5 Marks).

g. Differentiate between endangered and threatened species (4 Marks).

Question 2

Discuss the effect of human practices to biodiversity.

(20 Marks).

Question 3

(a) Discuss conservation conflict, causes and its management

(10 Marks).

(b) Explain how the levels of Biodiversity can be estimated

(10 Marks).

Question 4

Discuss the causes, effects and methods of control of overpopulation. (20 Marks).

Question 5

Give a detailed account of the major causes of biodiversity loss and the strategies for conservation. (20 Marks).