



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOTECHNOLOGY

COURSE CODE: SBL 422

COURSE TITLE: BIOLOGICAL CONSERVATION

DATE: TUESDAY 5th, October 2021. **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

- a. Define the following terms: (4 Marks)
- i) Sustainability
 - ii) Productivity
- b. Biological conservation is holistic. Explain. (4 Marks)
- c. Briefly discuss global conventions to conservation. (4 Marks)
- d. State the basic principles of conservation biology. (4 Marks)
- e. Briefly discuss the major factors that affect biological diversity. (5 Marks)
- f. State the factors that have contributed to the development of conservation biology. (5 Marks)
- g. Differentiate between species diversity and species richness. (4 Marks)

QUESTION 2

Discuss the impact of biodiversity on human life and the effect of human activities on biodiversity. (20 Marks)

QUESTION 3

- (a) Discuss the drivers of conflicts between biodiversity conservation and human activities and the approaches of management of conflicts. (10 Marks)
- (b) Discuss the characteristics and benefits of buffer zones. (10 Marks)

QUESTION 4

Discuss the conservation method that conserves biodiversity outside the areas where they naturally occur along with its importance. (20 Marks)

QUESTION 5

Discuss the main issues of environmental crisis. (20 Marks)