



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS
SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE
OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE
FIRST SEMESTER 2022/2023
(SEPTEMBER - DECEMBER, 2022)

ENSC 200: BIODIVERSITY CONSERVATION

STREAM: Y2 S1

TIME: 2 HOURS

DAY: WEDNESDAY, 9:00 A.M – 11:00A.M

DATE: 07/12/2022

INSTRUCTIONS:

- 1. Do not write anything on this question paper.***
- 2. Answer ALL Questions in Section A (Compulsory) and any other TWO Questions in section B.***

SECTION A (40 MARKS)

- (a) When would a species be considered to be prone to extinction?
(4 marks)

(b) Explain how human demands on earth's natural resources have impacted on biodiversity.
(6 marks)
- (a) List two advantages of protecting an entire ecosystem rather than individual species.
(2 marks)

(b) Differentiate between In-situ and Ex-situ conservation of biodiversity
(4 marks)

(c) Outline the roles of seed banks in an overall plant conservation strategy
(4 marks)

3 (a) State the measures used to determine species diversity? (2 marks)

(b) List down any three factors that influence species diversity in an area
(3 marks)

(c) Briefly explain any five examples of ecosystem services provided by biological resources (5 marks)

4 (a) What is 'red list of threatened species'? (2 marks)

(b) Explain the four categories threatened species according to IUCN
(8 marks)

SECTION B

5 (a) Outline the main objectives of conservation of biodiversity (4 marks)

(b) Summarise three principal goals of Convention on Biological Diversity
(3 marks)

(c) Appraise the reasons for conservation of biodiversity. (8 marks)

6. Critically discuss the implications of climate change on biodiversity
(15 marks)

7 Discuss the causes and consequences of biodiversity degeneration.
(15 marks)