



THE CO-OPERATIVE UNIVERSITY OF KENYA

END OF SEMESTER EXAMINATION DECEMBER -2022

**EXAMINATION FOR THE DEGREE OF BACHELOR OF DISASTER, RISK
MANAGEMENT
(YR II SEM I)**

UNIT CODE: BDEV 2104

UNIT TITLE: PRICIPLES OF ECOLOGY AND BIODIVESITY

DATE: THURSDAY, 22ND DECEMBER, 2022

TIME: 2:00 PM – 4:00 PM

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INSTRUCTIONS:

- **Answer question ONE (compulsory) and any other TWO questions**

QUESTION ONE

- a) What is your understanding of the term biological diversity (5 marks)
- b) Mention at least five (5) areas in Kenya with high biodiversity (15marks)
- c) Name at least three (3) ecosystems in Kenya (3 marks)
- d) Explain the characteristics of each of the ecosystem named in c above (15marks)
- e) Define the term ecology and state its importance (2 marks)

QUESTION TWO

- (a) Discuss biotic and abiotic interactions using practical examples (10 marks)
- (b) Explain the terms intraspecific and interspecific interactions (10 marks)

QUESTION THREE

Name and explain at least five (5) causes that lead to loss of biodiversity. (20marks)

QUESTION FOUR

- (a) Discuss human development activities influence sustainable management of natural resources k (10marks)
- (b) Define the term ecological niche. (2 marks)
- (c) Briefly define the term species and explain how they interact (8 marks)

QUESTION FIVE

Explain how you would undertake an ecological study or scientific research. (20 marks)

