



THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

JANUARY – APRIL 2018 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGY

REGULAR PROGRAMME

BIO 405: CONSERVATION BIOLOGY

Date: APRIL 2018

Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) Define the term biological diversity and briefly describe its natural levels
(3marks)
- b) Outline and briefly describe IUCN's categories of threat to species
(4 marks)
- c) Briefly discuss the values that can justify the conservation of biological diversity by a named local community in Kenya
(3 marks)
- d) Name three multilateral environmental agreements and explain how they contribute to the conservation of three named endangered species in Kenya.
(5 marks)
- e) Explain the concept of "minimum conservation area (MCA)"
(4 marks)
- f) Briefly explain the role of conservation biologists in protecting biodiversity
(3 marks)
- g) Citing known examples, explain how international agreements (MEAs) have assisted in protecting biodiversity globally.
(4 marks)
- h) Briefly explain the approaches applicable in restoring biological communities in a named ecosystem.
(4 marks)

- Q2. Outline five systems of wildlife conservation in Africa and discuss their merits and demerits **(20marks)**
- Q3. Discuss how Biodiversity Conservation can help a named developing country meet three named Sustainable Goals(**SDGs**) of Vision 2030 **(20 Marks)**
- Q4. State five types of data that can be derived from animal counts and explain how they can be used in wildlife management **(20 marks)**
- Q5. Outline and briefly describe methods of conserving small populations of two named critically endangered species in Kenya **(20 marks)**

END