



**AFRICA
UNIVERSITY®**
A United Methodist-Related Institution

“Investing in Africa’s Future”

COLLEGE OF HEALTH AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES

ANR 302 CONSERVATION BIOLOGY

END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER 2019

LECTURER: MS M. C. KUREHWATIRA

DURATION: 3 HRS

INSTRUCTIONS

Answer any four questions.

Question 1

Discuss, giving examples, how human activities are threatening species and ecosystems. **[25 marks]**

Question 2

Discuss giving examples, the importance of biodiversity on in Africa. **[25 marks]**

Question 3

- a) Describe the spatial and temporal distribution of biodiversity in Africa. **[20 marks]**
- b) Conservation Biology is a multidisciplinary science. Discuss. **[5 marks]**

Question 4

- a) Give your understanding of in situ and ex situ conservation. **[5 marks]**
- b) Outline the pros and cons of in situ and ex situ conservation methods. **[16 marks]**
- c) Explain why regulating the international trade of elephants may be a more effective conservation strategy than banning trade completely. **[4 marks]**

Question 5

- a) Define the following:
 - i. Biodiversity, **[2 marks]**
 - ii. Conservationists, **[2 marks]**
 - iii. Preservationists, **[2 marks]**
 - iv. Environmentalists and **[2 marks]**
 - v. Ecologists. **[2 marks]**
- b) Describe the three levels of biodiversity, highlighting the importance of each level in conservation biology. **[15 marks]**

Question 6

- a) Describe the criteria that can be used to determine extinction of a species. **[10 marks]**
- b) Discuss, using examples, the factors that make species vulnerable to extinction. **[15 marks]**