



“Investing in Africa’s future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NACP 216: ECOLOGY

END OF FIRST SEMESTER FINAL EXAMINATIONS

NOVEMBER/ DECEMBER 2020

LECTURER: MR. MTAITA T. A.

DURATION: 24 HRS

INSTRUCTIONS

1. Download the examination paper from MOODLE and work offline
2. Choose and answer one question
3. Upload your response on Moodle in PDF format

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Question One

- a) Discuss how to manage the causes and effects of population fluctuations. [20]
- b) Discuss the causes, effects and practical solutions to the problem of veld fires. [20]
- c) Advise on different ways to present energy flow in an ecosystem. [20]
- d) Analyse the different types of interactions in ecosystems. [20]
- e) Examine the **characteristics of savannas** and discuss **the factors** that cause or determine the occurrence of savannas. [20]

Question Two

- a) Discuss different ways of determining population density. [20]
- b) Analyse the different ways in which humans abuse nature and suggest some practical solutions. [20]
- c) From an ecological perspective, explicitly show why developing countries are still facing food challenges and suggest some practical solutions. [20]
- d) Review different causes of wildlife mortality and suggest how to alleviate such challenges. [20]
- e) Analyse the concept of conservation of natural resources. [20]

Question Three

- a) Discuss the causes, effects and solutions to the problem of deforestation. [20]

- b) Analyse how different causes of diversity in forages interact with rangeland management to further affect forage quality and quantity. [20]
- c) Discuss five habitat types that are common in ecosystems. [20]
- d) As an ecologist, convince community leaders on the value of wetlands that necessitates their preservation. [20]
- e) Analyse the characteristics and determinants of savannas. [20]

END OF EXAMINATION PAPER