



“Investing in Africa’s future”
**COLLEGE OF HEALTH, AGRICULTURE & NATURAL
SCIENCES**

NACP 216: ECOLOGY

END OF FIRST SEMESTER FINAL EXAMINATIONS

NOVEMBER/ DECEMBER 2022

LECTURER: MR. MTAITA T. A.

DURATION: 3 HOURS

INSTRUCTION

Choose and answer four questions

Question One

- a) Examine the factors determining carrying capacity in a given habitat. **[5]**
- b) How does population density affect population growth? **[10]**
- c) Discuss the applications of ecological knowledge in daily life. **[10]**

Question two

- a) Examine the ecosystem concept and discuss how can societies rehabilitate and restore damaged ecosystems. **[10]**
- b) Analyze the different ways in which people abuse nature and suggest possible solutions. **[15]**

Question Three

- a) Unpack the impact of climate change in ecosystems and clarify what societies can do as good stewards of the earth. **[10]**
- b) Discuss the causes, effects and control of veld fires. **[15]**

Question Four

- a) Examine the different types of ecological pyramids. **[5]**
- b) Analyse the different disturbances in an ecosystem and comment on how to ameliorate the problem **[10]**
- c) Discuss the major determinants of savannah **[10]**

Question Five

- a) Differentiate between food chain and food webs **[5]**
- b) Analyse the causes and effects of ecological refugees and formulate strategies to mend the problem. **[20]**

END OF EXAMINATION PAPER