



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DIPLOMA IN AGRICULTURE

AAD 2507: ECOLOGY AND ENVIRONMENTAL SCIENCE

DATE: DECEMBER 2024

TIME: 1½ HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Define the following terms.
 - i) Food Chain (2 marks)
 - ii) Pollution (2 marks)
 - iii) Environmental Science (2 marks)
 - iv) Species (2 marks)
- b) Give four reasons why species diversity is important? (4 marks)
- c) Explain population growth. (4 marks)
- d) Differentiate between Natality and Mortality. (4 marks)
- e) State six groups of ecological concepts. (6 marks)
- f) Give four Ecological disasters that have occurred in the world (4 marks)

QUESTION TWO (15 MARKS)

- a) Give four effects of Global warming. (8 marks)

- b) Explain the difference between an ecosystem and an ecological community? (4 marks)
- c) State three causes of loss of species diversity. (3 marks)

QUESTION THREE (15 MARKS)

- a) Give five reasons why an E.I.A is done. (5 marks)
- b) Give the stratification of the atmosphere. (5 marks)
- c) Differentiate between Eukaryotes and Prokaryotes. (5 marks)

QUESTION FOUR (15 MARKS)

- a) Discuss four population attributes (8 marks)
- b) Explain seven ways of reducing Air pollution (7marks)