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University Examinations 2015/2016

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE CERTIFICATE IN
AGRICULTURE

NAR 0141: ECOLOGY AND ENVIRONMENTAL SCIENCE

DATE: NOVEMBER 2015

TIME: 1½ HOURS

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

QUESTION ONE (30 MARKS)

- a) Define the following terminologies (5 Marks)
- i) Biosphere
 - ii) Community
 - iii) Predator
 - iv) Ecology
 - v) Ecosystem
- b) Explain how noise pollution can be controlled in a busy modern city (5 Marks)
- c) Explain various trophic levels in an ecosystem (5 Marks)
- d) Describe the feeding habits of a carnivorous animals and explain how they are adapted to their diet. (10 Marks)
- e) Describe the characteristics of hazardous waste (5 Marks)

QUESTION TWO (15 MARKS)

- a) Explain the contribution of under development to environmental degradation cite specific examples in Kenya (5 Marks)
- b) Explain how the following body anatomy adapt carnivores to their food. (10 Marks)
- i) Jaw movement
 - ii) Camouflage
 - iii) Eyes
 - iv) Speed
 - v) Body structure

QUESTION THREE (15 MARKS)

- a) Outline the composition of Municipal solid waste (5 Marks)
- b) What are the importance of Ozone layer in relation to life on earth (5 Marks)
- c) Explain five factors contributing to the rapid population growth in Kenya (5 Marks)

QUESTION FOUR (15 MARKS)

- a) Explain the cause of water pollution in Kenya (5 Marks)
- b) Discuss five (5) agricultural practices that cause environmental degradation (10 Marks)