



EMBU UNIVERSITY COLLEGE

(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

TRIMESTER EXAMINATION 2013/2014

**SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN AGROECOSYSTEMS AND BACHELOR OF SCIENCE IN WATER RESOURCES
MANAGEMENT**

AEM 207: BIODIVERSITY USE AND CONSERVATION

DATE: AUGUST 15, 2014

TIME: 8.30 – 10.30AM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE

- a) Explain the meaning of the term biodiversity (3 marks)
- b) State five biodiversity related conventions (5 marks)
- c) Name five invasive plants in Kenya (5 marks)
- d) State five indigenous practices that help in biodiversity conservation (5 marks)
- e) Name six tree species found in the EUC ecosystem (6 marks)
- f) Name six endangered mammals in Kenya (6 marks)

QUESTION TWO

Write explanatory notes on the following

- a) Biodiversity hotspots (10 marks)
- b) Recreational and aesthetic value of biodiversity (10 marks)

QUESTION THREE

- a) Write explanatory notes on overharvesting as a human induced biodiversity threat (6 marks)
- b) Design a strategy to manage rhino poaching in Maasai Mara national park (14 marks)

QUESTION FOUR

As the Kenya wildlife service officer Embu County, a farmer approaches you with a request for a permit to rear guinea fowls.

- a) Discuss the factors you would consider before approving the request (8 marks)
- b) Explain the impact you expect the enterprise to have on the ecosystem (6 marks)
- c) Advise him on mitigation strategies (7 marks)

QUESTION FIVE

Write explanatory notes on

- a) Biotechnology concerns in biodiversity conservation (10 marks)
- b) Rehabilitation of degraded ecosystems (10 marks)

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