

**CHUKA**



**UNIVERSITY**

**COLLEGE**

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF  
CERTIFICATE IN ECOTOURISM & HOSPITALITY MANAGEMENT**

**CERT 0006: INTRODUCTION TO BIRDS AND MAMMALS OF EAST AFRICA**

**STREAMS: CERT. (ECOT & HOSP) Y1S1**

**TIME: 2 HOURS**

**DAY/DATE: WEDNESDAY 8/8/2012**

**11.30 A.M. – 1.30 P.M.**

**INSTRUCTIONS:**

**Answer ALL questions in SECTION A and any TWO questions in SECTION B.**

**SECTION A: (30 Marks)**

1. Briefly explain the following terms as used in bird survey. [5 marks]
  - (a) population index
  - (b) bias
  - (c) precision
  - (d) accuracy
  - (e) sample
2. List five ways in which birds defend themselves against predators during nesting. [5 marks]
3.
  - (a) Define sexual dimorphism in mammals and birds. [1 mark]
  - (b) List three factors that influence ability of mammals to disperse. [2 marks]
  - (c) Differentiate between melanism and albinism in animals. [2 marks]
4. Describe the behaviour and organization of the Elephants. [5 marks]

5. (a) State and explain the three modes of reproduction in mammals. [3 marks]

(b) Define the following:

(i) Delayed fertilization [1 mark]

(ii) Gestation period [1 mark]

6. Describe some of the potential dangers posed by wild animals to humans. [5 marks]

**SECTION B: Answer any TWO questions in this section (40 Marks)**

7. Discuss the major conservation issues affecting mammals and birds. [20 marks]

8. Discuss using examples the adaptations herbivores have developed to avoid predation by carnivores. [20 marks]

9. Discuss the various social organization structures of birds and mammals giving an example in each category. [20 marks]

-----