

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR SCIENCE IN
WILDLIFE ENTERPRISE AND MANAGEMENT**

WIEM 426: BEHAVIORAL ECOLOGY

STREAMS: WIEM Y4S1

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 4/12/2019

8.30 A.M – 10.30 A.M

INSTRUCTIONS

Answer all questions in section A and two in section B

Do not write on the question paper

SECTION A (30 MARKS)

1. Briefly elaborate on territorial behavior in a named wildlife species. [6 marks]
2. Discuss the four basic characteristic that allows for behavioral adaptations in living organisms. [6 marks]
3. Discuss the bourgeois strategy as an evolutionary stable strategy in animal behaviors. [6 marks]
4. Explain types of familial conflict in wildlife species. [6 marks]
5. Distinguish between;
 - (a) Proximate and ultimate causes of behavior [2 marks]
 - (b) Classical game theory and evolutionary game theory. [2 marks]
 - (c) Altruism and selfish gene. [2 marks]

SECTION B (40 MARKS)

6. Discuss extrinsic and intrinsic constraints to an animal's foraging success. [20 marks]
7. (a) Discuss parental investment in a named mammal species. [10 marks]
(b) Discuss the significance of mate choice in animals. [10 marks]

8. Discuss communication and signing behaviour in animals giving appropriate examples.

[20

marks]
