

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS**

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

**WIEM 811: BEHAVIORAL ECOLOGY**

**STREAMS: MSC. WIEM Y1S2 (SB)**

**TIME: 3 HOURS**

**DAY/DATE: THURSDAY 08/08/2019**

**11.30 A.M. – 2.30 P.M.**

**INSTRUCTIONS:**

- **Answer any three questions**
- **Each question carries 20 marks**
- **Do Not write on the question paper**

- Q1.** Discuss ways to interrogate the significance of a given behavior to an animal's survival fitness **(20 marks)**
- Q2.** In most animals, male reproductive success is limited by access to females while female reproductive success is limited by their access to resources. Discuss how this influences their mate choice behavior **(20 marks)**
- Q3.** Discuss the bourgeois strategy as an evolutionary stable strategy in animal behaviors. **(20 marks)**
- Q4.** Discuss pheromonal and visual communication behavior and their significance in animal welfare **(20 marks)**
- Q5.** (a) Discuss kin selection as expressed in cooperative behaviour. **(10 marks)**  
(b) Describe altruism in a named mammal species. **(10 marks)**
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