



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND  
TECHNOLOGY  
SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES  
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF  
EDUCATION (SCIENCE)  
4<sup>TH</sup> YEAR 1<sup>ST</sup> SEMESTER 2013/2014 ACADEMIC YEAR  
REGULAR**

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**COURSE CODE: SZL 402**

**COURSE TITLE: ANIMAL BEHAVIOUR**

**EXAM VENUE: LAB 4**

**STREAM: (BSc. Science)**

**DATE: 15/8/14**

**EXAM SESSION: 9.00 – 11.00AM**

**TIME: 2 HOURS**

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**Instructions:**

- 1. Answer question 1 (compulsory) in Section A and any other 2 questions in Section B .**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**Section A – Answer All Questions (30 marks)**

1. Give the motivation behind everything that animals do. [3 marks]
2. Explain the adaptive significance of animal behavioral responses. [3 marks]
3. Give four major levels/questions in the study of animal behavior. [3 marks]
4. Explain the neuro-physiological approach in the study of animal behavior. [3 marks]
5. Define motivation/drive and state its three aspects/components. [3 marks]
6. Explain, with examples, the significance of defensive behavior in animals [3marks]
7. Outline, with examples, any three forms of communication in animals. [3 marks]
8. Differentiate between taxis and kinesis. [3 marks]
9. Distinguish between precocial and altricial embryo. [3 marks]
10. Inherited behaviors are split into two categories: reflex and instinct. Explain, giving examples. [3 marks]

**Section B – Choose 2 Questions (40 marks)**

1.
  - a. By using examples, describe learned behavior especially in newborns. [10 marks]
  - b. Define intelligence, and explain, with examples, how the size of cerebrum relative to the rest of brain is related to level of significance. [10 marks]
2. Ontogeny of behavior relates to how behavior develops over time. Describe the various theories of behavioral development. [20 marks]
3. Taxis is defined as movement of animals away from or towards a stimulus. Describe any five taxes that are seen in animals. [20 marks]
4. The daily recurrence of activity and rest in animals reflect an ubiquitous programme called circadian clock. Describe characteristics of circadian rhythms in animals. [20 marks]