



**JARAMOGI OGINGA ODINGA UNIVERSITY  
OF SCIENCE & TECHNOLOGY  
UNIVERSITY EXAMINATIONS 2012/2013  
4 YEAR 1<sup>ST</sup> SEMESTER EXAMINATION FOR THE DEGREE  
OF BACHELOR OF EDUCATION (SCIENCE) WITH IT  
(MAIN)**

**COURSE CODE: SZL 402**

**COURSE TITLE: ANIMAL BEHAVIOUR**

**DATE: 19/8/2013**

**TIME: 11.30 - 1.30 PM**

**DURATION: 2 HOURS**

**INSTRUCTIONS**

- 1. This paper contains two sections (A and B).**
- 2. Answer ALL questions in Section A and any Two (2) questions in Section B.**
- 3. Write ALL answers in the booklet provided.**
- 4. You may use illustrations in your answers as you deem necessary.**

**SECTION A (30 marks)**

1. Explain the following: (3 marks)
  - a. concepts of FAPs
  - b. Sign Stimuli types,
2. State the models of organization of instinctive behavior, learning and reinforcement. (3 marks)
3. Outline the experimental Methods that have been used by behaviorists in demonstrating a genetic basis of behavior (3 marks)
4. Give at least two examples of cases involving locating the effects of genes and how Recombinant DNA has been utilized to insert desired genes. (3 marks)
5. Explain the Game Theory using examples of how it has been applied in animal aggression. (3 marks)
6. Briefly describe how hormonal control of growth and metamorphosis in insects is achieved. (3 marks)
7. Outline the various types of orientation in space. (3 marks)
8. Explain how various cues influence homing or migration in birds. Give an example case of a bird species. (3 marks)
9. Discuss the various strategies used by prey species (Crypsis) in antipredator behavior. (3 marks)
10. What is altruism? Give three case examples in detail. (3 marks)

**SECTION B (40 Marks)**

11. Compare the Classical Ethology and Comparative Psychology approaches to the study of animal Behavior. (20 marks)
12. Discuss the factors that influence the strategy which is preferred by animals for success. (20 marks)
13. Using at least two selected examples of sense organs, analyze how sensory processing and motor systems control flight behavior. (20 marks)
14. Describe the various channels of communication (20 marks)