



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

COURSE CODE: SZL 402

COURSE TITLE: ANIMAL BEHAVIOUR

EXAM VENUE: CR 1

STREAM: (SBPS)

DATE: 30/04/14

EXAM SESSION: 2.00 – 4.00 PM

TIME: 2.00 HOURS

Instructions:

- 1. Answer ALL Questions 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 (30 marks)

1. State the four types of questions that are usually asked about behavior. (3 marks)
2. Explain the following three basic concepts of behaviour:
 - i. FAPs
 - ii. MAP
 - iii. ASE (3 marks)
3. State Morgan's canon. (3 marks)
4. Describe three methods that have been applied in determination of genetic basis of behaviour. (3 marks)
5. Outline three modern methods of behavioural study which show where and how genes act. (3 marks)
6. Describe three factors that preserve genetic variation in the process of natural selection. (3 marks)
7. Explain the Game Theory using examples of application in animal aggression. (3 marks)
8. Briefly describe the physiological basis of metamorphosis in insects. (3 marks)
9. State the types of orientation in space and choose one to explain how cues may influence it. (3 marks)
10. Define altruism and provide at least one example of this behaviour. (3 marks)

SECTION B (40 Marks)

11. Give an account of the history of the study of behaviour. (20 marks)
12. Compare the comparative and experimental approaches of study of adaptiveness of behaviour. (20 marks)
13. Discuss the various forms of communication in animals. (20 marks)
14. Explain the control of behaviour by sensory processing and motor systems using one innate behaviour. (20 marks)