



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES**  
**DEPARTMENT OF BIOLOGICAL SCIENCES**  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN**  
**BIOLOGICAL SCIENCES AND BACHELOR OF EDUCATION SCIENCE WITH IT**  
**FOURTH YEAR FIRST SEMESTER 2018-2019 ACADEMIC YEAR**  
**MAIN CAMPUS**

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**COURSE CODE:** SBI 3412 AND SZL 402  
**COURSE TITLE:** ANIMAL BEHAVIOUR  
**VENUE** STREAM: (BSC BIO/BED)  
**DATE:** EXAM SESSION:  
**TIME: 2 HOURS**

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**INSTRUCTIONS:**

- 1. Answer ALL questions in Section A and any TWO 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.**
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**SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)**

1. With examples describe key components of behavior motor pattern (4 Marks)
2. Describe the differences between territorial behaviour and territoriality. (4 Marks)
3. With reference to blow flies, describe the timing of behaviour. (3 Marks)
4. Explain any two physiological mechanisms that initiate behaviour in animals.(2 Marks)
5. Describe the adaptive significance of biological clocks (3 Marks)
6. Briefly describe any four types of mating systems in animals. (4 Marks)
7. Describe the differences between altruism and kinship behaviour. (3 Marks)
8. Describe any four modes of communication in animals. (4 Marks)
9. Describe the significance cooperative breeding behaviour. (3 Marks)

**SECTION B: ESSAYQUESTIONS (40 MARKS)**

10. Discuss dominance behaviour in animals. (20 Marks)
11. Discuss imprinting as an adaptive behaviour in animas. (20 Marks)
12. Discuss honey bee communication. (20 Marks)
13. Describe optimal foraging as a feeding strategy in animals. (20 Marks)