



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR THIRD YEAR END OF FIRST SEMESTER EXAMINATIONS

SCHOOL OF SCIENCE AND INFORMATION SCIENCES BACHELOR OF SCIENCE

COURSE CODE: ZOO 3217

COURSE TITLE: ANIMAL BEHAVIOUR

DATE: 18TH APRIL 2019

TIME: 1430 - 1630 HRS

INSTRUCTIONS TO CANDIDATES

1. Answer all the questions in **SECTION A** and **ANY TWO** questions from section B.
2. Illustrate your answers with suitable diagrams and give examples wherever necessary.

SECTION A: Answer all the questions (30 MARKS)

1. Explain how insects avoid being eaten by bats. (3 marks)
2. Describe chemotaxis in *Escherichia coli*. (3 marks)
3. Explain song learning in birds and give a specific example. (3 marks)
4. Outline an experiment to demonstrate sun- compass orientation in ants(3 marks)
5. Explain the terms: energetic cost, risk cost and opportunity cost. (3 marks)
6. Describe altruistic, selfish and cooperative acts in reference to group living.
7. Explain the mechanism of cephalopod inking behaviour. (3 marks)
8. Give an account of the application of knowledge in animal behaviour in conservation. (3 marks)
9. Explain the concept of nervous stimulation and inhibition. (3 marks)
10. Describe the roles of the sexes in social systems. (3 marks)

SECTION B: ANSWER ANY TWO questions (40 MARKS)

11. Discuss experiments to elucidate the involvement of the hippocampus in regulation of memory. (20 marks)
12. Write an essay on the life and experiments of Niko Tinbergen (20 marks)
13. Discuss habituation and associative learning. (20 marks)
14. Give an account of the activities involved in the searching and selection of food among animals. (20 marks)

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