

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY

**OF AGRICULTURE AND TECHNOLOGY**

# University Examinations 2016/2017

**YEAR ONE SEMESTER TWO EXAMINATIONS FOR THE DEGREE OF MASTER OF SCIENCE IN CONSERVATION BIOLOGY**

**SZL 3130: BEHAVIOURAL AND PHYSIOLOGICAL ECOLOGY**

**DATE: APRIL 2017 TIME: 3 HOURS**

**INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS**

1) Discuss the various behavioral terminologies (25 marks)

2) Discuss the factors influencing behavior in animals (25 marks)

3) Discuss how evolutionary hypotheses explain behavior through natural selection (25 marks)

4) Discuss thermoregulation and water balance approaches in response to change in internal body temperature. Give life examples (25 marks)

5) a) Describe the various methods how animals communication. Explain using examples (15 marks)

b) Explain the following (10 marks)

a) Ingestive behavior

b) Gregarious and alhelomimetic behavior

c) Investive behavior

6) a) Compare and contrast the injestive systery behavior of cattle, sheep, horse, swine and poultry (15 marks)

b) What are implications of social dominance behavior in management of livestock (10 marks)