



(University of Choice)
MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)

MAIN CAMPUS/WEBUYE CAMPUS
MAIN EXAMINATIONS

UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
FOURTH YEAR SECOND SEMESTER EXAMINATIONS
FOR THE DEGREE
OF
BACHELOR OF SCIENCE IN BIOLOGY/ NATURAL
RESOURCE MANAGEMENT/ EDUCATION SCIENCE/
AGRICULTURAL EXTENSION & EDUCATION

COURSE CODE: SZL424

COURSE TITLE: ANIMAL BEHAVIOUR

DATE: THURSDAY, 30TH MAY 2019

TIME: 8:00 – 10:00 A.M.

INSTRUCTIONS TO CANDIDATES

Answer all questions in A section and select any two from section B

Time: 2 Hours

MMUT observes ZERO tolerance to examination cheating
This paper consists of 2 printed pages. Please turn over

SECTION A (SHORT ANSWER QUESTION, 40 MARKS)

1. Describe an experimental approach to verify proximate bases of courtship behavior in the village weaver bird *Ploceus cucullat* (5 marks)
2. Explain two (2) possible behavioral changes that could occur in spotted hyena *Crocuta crocuta* in case the lions *Panthera leo* are removed from the shared ecosystem (5 marks)
3. Describe a short experimental test to confirm that the attraction of the *Anopheles gambiae* mosquitoes towards humans is chemically-mediated (5 marks)
4. Describe the unique features in the brooding behaviours of the following birds:
 - (a) Ostrich *Struthio camelus* (2.5 marks)
 - (b) Common cuckoo *Cuculus canorus* (2.5 marks)
5. State two (2) behaviours of lungfish *Protopterus amphibius* that support evolution the theory that animal life originated from the aquatic ecosystem (5 marks)
6. Describe canine rabies based on proximate explanations (5 marks)
7. State five (5) behavioural challenges that could impede the translocation of the endangered white rhino *Ceratotherium simum* between different ecosystem (5 marks)
8. Give two (2) possible reasons for the population explosion of feral camels *Camelus dromedaries* in Australia (5 marks)

SECTION B (ESSAY QUESTIONS, 30 MARKS)

9. Discuss the potential of animal Behaviour in contributing towards the Presidential Big Four Agenda in Kenya (15 marks)
10. Describe five strategies used by the reptiles in capturing immobilizing prey (15 marks)
11. As a wildlife tourist expert, describe any five categories of interesting behaviours of the olive baboon *Papio anubis* that could feature in a televised documentary (15marks)