



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**FOURTH YEAR SECOND SEMESTER EXAMINATIONS  
MAIN EXAMINATION**

**FOR THE DEGREE  
OF  
BACHELOR OF EDUCATION (SCIENCE)/ AGRICULTURAL  
EXTENSION & EDUCATION**

**COURSE CODE: SZL 424**

**COURSE TITLE: ANIMAL BEHAVIOUR**

**DATE: THURSDAY, 21<sup>ST</sup> APRIL 2022**

**TIME: 3:00 – 5:00 P.M.**

**INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in section A  
Answer **TWO** questions in section B

TIME: 2Hours

MMUST observes **ZERO** tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.



**SECTION A (SHORT ANSWER QUESTIONS, 40 MARKS)**

1. Briefly explain the relationship between the following animal behaviours.
  - (i) Aggressive and Foraging behaviours in the Lion *Panthera leo*. [2.5 marks]
  - (ii) Curiosity and Communication behaviours in the Olive Baboons *Papio Anubis*. [2.5 marks]
  
2. Based on the Tinbergen's two (2) proximate explanations, differentiate between the prey-immobilization strategies of the African Rock Python *Python sebae* and the King Cobra *Ophiophagus Hannah*. [5 marks]
  
3. Briefly explain two (2) aspects that enable the female Spotted Hyena *Crocuta crocuta* to control copulation. [5 marks]
  
4. Explain how brood parasitism is expressed by the following animal species;
  - (i) Common Cuckoo *Cuculus canorus* [2.5 marks]
  - (ii) Cuckoo Bee (subgenus *Psithyrus*) [2.5 marks]
  
5. Outline five (5) features that make the Nile Crocodile *Crocodylus niloticus* a successful predator. [5 marks]
  
6. State two (2) defensive responses of the Cuttlefish *Sepia officinalis* towards its aquatic predators. [5 marks]
  
7. Outline five (5) types of domestic dog *Canis familiaris* categories based of their functions derived from different training regimes. [5 marks]

8. State how five (5) different abiotic factors influence the behaviours of the Mosquito *Anopheles gambiae* that transmits malaria disease pathogens. [5 marks]

**SECTION B (ESSAY QUESTIONS, 30 MARKS)**

**Answer questions 9 (Compulsory)**

9. Climate change is a threat to the survival of the Blue Wildebeest *Connochaetes taurinus* at Maasai Mara National Park. Use a behavioral approach to discuss this statement [15 marks].

**Choose one question**

10. Discuss behavioral development in termites (Isoptera). [15 marks]
11. Describe courtship behaviours in birds giving relevant examples. [15 marks]