



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

FOURTH YEAR FIRST SEMESTER

SUPPLEMENTARY/SPECIAL EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF EDUCATION

COURSE CODE: SZL412

COURSE TITLE: ANIMAL BEHAVIOUR / ETHOLOGY

DATE: 23RD November 2022 TIME: 2.00- 4.00 PM

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 3 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. (a) Define the following terms as used in study of animal behaviour
 - i. Altruistic behaviour
 - ii. Imprinting
 - iii. Habituation
 - iv. stimulus
 - v. Semiochemicals (5 marks)
- (b) Outline the lessons learnt in the understanding of the genetic basis of behavior in "simpler" organisms, especially the mouse and the fruit fly *Drosophila sp.* (5 marks)
- (c) State the three categories of biological rhythms (5 marks)
- (d) Explain the characteristics of learned behaviour in animals. (5 marks)
- (e) Briefly explain the role of the following scientist in the studies of animal behaviour:
 - i. Charles Darwin (1809-1889)
 - ii. Niko Tinbergen (1904) (5 marks)
- (f) Can hormones affect animal behaviour? Explain (5 marks)
2. Discuss why the reproductive behaviour in three spined stickleback fish is considered instinctive. (20 marks)
3. Discuss the multigenic nature of natural variation with special attention to psychiatric disorders in Humans. (20 marks)
4. Discuss instrumental conditioning. (20 marks)
5. Discuss and explain why not all species care for their offspring? (20 marks)