



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

SECOND YEAR 2ND SEMESTER
SUPPLEMENTARY/SPECIAL EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE AND BIORESOURCE

COURSE CODE: SBC 226

COURSE TITLE: WILDLIFE ECOPHYSIOLOGY

DATE: 5th October, 2018 **TIME:** 8:00 -10:00 a.m.

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 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

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1. a) Define and describe the two general categories of ecotypes (5 marks)
 - b) Briefly describe the importance of ecological energetics in wildlife system (5 marks)
 - c) Write some short notes on concept of adaptation in ecological system (5 marks)
 - d) Briefly describe how temperature can inhibit photosynthesis in plant (5 marks)
 - e) Briefly explain how thermoregulation is achieved in wild animals (5 marks)
 - f) Briefly explain the concept of acclimatization in ecosystems (5 marks)
 2. Explain the functional responses in ecosystems (20 marks)
 3. Describe nutrition in wildlife ecological systems (20 marks)
 4. Describe the productivity in relation to the distribution and abundance of wildlife in time and space (20 marks)
 5. Discuss the foraging behavior in wildlife in different ecological systems (20 marks)