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(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

SECOND YEAR 2ND SEMESTER
MAIN EXAMINATIONS

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIORESOURCE
MANAGEMENT CONSERVATION**

COURSE CODE: SBC 226

COURSE TITLE: WILDLIFE ECOPHYSIOLOGY

DATE: MONDAY 30TH JULY, 2018.

TIME: 9:00 – 11:00 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

1. a) Distinguish between Adaptation and phenotypic plasticity (5 marks)
- b) Briefly describe the five stages of stress responses in animals (5 marks)
- c) Write some short notes on ecotypes (5 marks)
- d) Briefly describe the Ecological energetic in ecological systems (5 marks)
- e) Briefly explain type I and type II functional responses in ecosystems (5 marks)
- f) Briefly explain the concept of resource allocation theory in ecosystems (5 marks)

2. Discuss the factors influencing foraging behavior in wildlife (20 marks)

3. Discuss the various ways in which plants respond to stress (20 marks)

4. Discuss the concept of acclimatization of living organisms to the environment (20 marks)

5. Describe the metabolisms and productivity in relation to the distribution and abundance of wildlife in time and space (20 marks)