



KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**FOURTH YEAR FIRST SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN BIORESOURCE
MANAGEMENT AND CONSERVATION**

COURSE CODE: SBC 411

COURSE TITLE: ANALYSIS OF WILDLIFE POPULATIONS

DATE: 3RD October, 2018

TIME: 11:30 – 1:30 p.m.

INSTRUCTIONS TO CANDIDATES

Answer Question One **compulsory (30mks)** and any other Two Questions **(20mks)** each.

TIME: 2 Hours

KIBU observes ZERO tolerance to examination cheating

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

QUESTION ONE (30 MKS)

- a) Describe the effects of temperature on the geographic range of wildlife (5 marks)
- b) Explain **TWO** methods of measuring population fluctuations (5 marks)
- c) Briefly explain how climate affect geographic range of wildlife populations (5 marks)
- d) Explain factors that determine sex of individuals in natural habitats (5 marks)
- e) Briefly describe some of the factors that affect accuracy and precision of sample surveys in the estimation of wildlife populations. (5 marks)
- f) Outline the factors that determine wildlife species range within their habitats (5 marks)

QUESTION TWO

“The size of wildlife populations sometimes displays cycles of highs and lows over time”

Discuss (20 marks)

QUESTION THREE

Discuss any **THREE** community dynamics that affect the distribution and abundance of wildlife. (20 marks)

QUESTION FOUR

Discuss the techniques used in the management of predator-prey relationships (20 marks)

QUESTION FIVE

Discuss the factors that affect population size and growth. (20 marks)