



(Knowledge for Development)

KIBABII UNIVERSITY

**UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR**

**FOURTH YEAR SECOND SEMESTER
MAIN EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIORESOURCES
MANAGEMENT AND CONSERVATION**

COURSE CODE: SBC 424

COURSE TITLE: BIOECONOMICS AND BIOPOLITICS IN WILDLIFE

DATE: Tuesday 7th August, 2018. **TIME:** 2:00 – 4:00 p.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

QUESTION ONE

a). Define bioeconomics of wildlife.

(2marks)

b). Explain the following concepts

- i. maximum sustainable yield
- ii. competitive resource exploitation
- iii. optimization analysis
- iv. externalities

(2marks)

(2marks)

(2marks)

(2marks)

c.) Briefly explain the advantages of yield mortality model in bioeconomics

(8marks)

d.) Identify and briefly explain the different property regimes

(12 marks)

QUESTION TWO

Discuss various externalities involved in the Kenyan fishing industry. (20mks)

QUESTION THREE

Explain the main assumptions of economic models developed by Gordon (20mks)

QUESTION FOUR

Discuss Age-structured bioeconomic model (20 marks)

QUESTION FIVE

Discuss the legal status of bioresource legislation in Kenya (20marks)