



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2019/2020 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: *Monday 9th* ~~Wednesday~~ *11th* November, 2020. **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: 3 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

QUESTION ONE

- a). Explain briefly the values of wildlife conservation in Kenya. (5 marks)
- b). Define the following concepts
- i. Maximum sustainable yield (4 marks)
 - ii. Competitive resource exploitation (2 marks)
 - iii. Optimization analysis (2 marks)
 - iv. Externalities (2 marks)
- c.) Briefly explain the advantages of yield mortality model in bioeconomics (5 marks)
- d.) Identify and briefly explain the different property regimes. (5 marks)
- e. Explain the parameters for the dynamic bioeconomic model. (5 marks)

QUESTION TWO

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

QUESTION THREE

Explain the concept of marginal and average yield as used in fisheries (20 marks)

QUESTION FOUR

Discuss the limitations of the Gordon-Schaefer model as applied in bioeconomics (20 marks)

QUESTION FIVE

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