



*(Knowledge for Development)*

# **KIBABII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR**

### **FOURTH YEAR FIRST SEMESTER SPECIAL/SUPPLEMENTARY EXAMINATIONS**

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

**COURSE CODE: SBC 414**

**COURSE TITLE: WILDLIFE DISEASES AND ECOTOXICOLOGY**

**DATE: 12<sup>TH</sup> JANUARY 2022**

**TIME: 8.00 -10.00 AM**

---

#### **INSTRUCTIONS TO CANDIDATES**

Answer question **ONE** [1] and **ANY** other **TWO** [2] questions

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over

KIBU observes ZERO tolerance to examination cheating

1. [i] Define the following [4mks]

(a) Zoonotic disease

(b) LD<sub>50</sub>

(c) Macroparasites

(d) Endogenous agents.

[ii] How do haematophagous insect pests locate their wildlife hosts? (3mks)

[iii] Briefly describe how habitat modification has been used to control anthrax in wildlife [3mks]

[iv] Differentiate between endemic and epidemic diseases [3mks]

[v] How is wildlife population density management for diseases achieved [4mks]

[vi] Explain the ecological effects of chemical pesticides to the environment? (6mks).

[vii] Illustrate the role of scientists in developing wildlife disease control policies [4mks]

[viii] Enumerate three factors threatening survival wildlife [3mks]

2 [a] Explain the principles integrated vector management in wildlife. (4mks).

[b] Discuss various forms of reactive wildlife disease control strategies [16mks]

3. Describe the impact of anthropogenic factors on wildlife [20 Marks]

4. Discuss the chemistry and toxicology of pesticides to wildlife in the ecosystem (20mks]

5. Write an essay on zoonotic diseases in wildlife [20mks]