



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR SCIENCE LABORATORY SCIENCE
TECHNOLOGY**
FIRST SEMESTER 2021/2022
(FEBRUARY-JUNE, 2022)

ZOOL 210: ECOLOGY

STREAM: Y2 S1

TIME: 2 HOURS

DAY: THURSDAY, 12:00 PM – 2:00 PM

DATE: 12/05/2022

INSTRUCTIONS:

- 1. Do not write anything on this question paper.**
 - 2. Answer Section A (Compulsory) and any other TWO Questions in section B.**
- SECTION A (40 Marks)**

1. Briefly explain how the terms below are used in ecology. (5marks)
Biomes
Ecosphere
Limiting factor
Tolerance
Niche
2. Summarize the reasons why ecology is important. (5 marks)
3. Briefly interview six human activities affecting health and the environment. (5 marks)
4. Briefly relate the limitations of the Ecological Pyramid. (5 marks)
5. Evaluate factors affecting Population Size. (5marks)
6. Appraise the major biomes of planet earth starting at the polar region.(5 marks)
7. Briefly justify types of climax. (5 marks)
8. Briefly discuss major air pollutants and their effects. (5marks)

SECTION B (30 Marks)

9. a)What do we mean by the term Ecology. (1marks)
b) Explain in detail the sub-fields or branches of ecology. (14marks)
10. a)Relate the basic features of Biotic Community . (5 marks)
b.Survey the characteristics of Biotic Community. (5 marks)
c.Briefly analyse Inter-Specific Interactions in a Biotic Community. (5marks)
11. Discuss ecological succession guided by titles below:
- Types of Ecological Succession. (4marks)
 - Seral Community (5marks)
 - Mechanisms of ecological succession according ecological theory of Frederic Clements. (6marks)