



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE CERTIFICATE IN ANIMAL SCIENCE

FIRST SEMESTER 2022/2023
(SEPTEMBER - DECEMBER, 2022)

ENSC 0100: ECOLOGY AND ENVIRONMENTAL SCIENCE

STREAM: Y1 S1

TIME: 2 HOURS

DAY: WEDNESDAY, 3:00 P.M – 5:00 P.M

DATE: 07/12/2022

INSTRUCTIONS:

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

SECTION A (40 MARKS): ATTEMPT ALL QUESTIONS IN THIS SECTION

- Describe the following terminologies
 - Population and community (2.5 marks)
 - Species and niche (2.5 marks)
 - Biosphere and Ecosystem (2.5 marks)
 - Habitat and Organism (2.5 marks)
- Describe the following processes in the hydrological cycle:
 - Transpiration (2 marks)
 - Precipitation (2 marks)
 - Evaporation (2 marks)
 - Percolation (2 marks)
 - Condensation (2 marks)
- Describe the two components of the ecosystem (4 marks)
- Briefly explain how the sun helps to sustain life on earth (6 marks)
- Explain global warming (10 marks)

SECTION B (30 MARKS) ATTEMPT ANY TWO QUESTIONS

6. Explain the impacts of human population to the environment (15 marks)
7. Water in Kenya cannot be fetched directly from water sources and drunk, this led to more water companies coming up to purify water for drinking. Explain the causes of water pollution. (15 marks)
8. Discuss biodiversity and its importance (15 marks)