



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE
OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

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

ENSC 100: INTRODUCTION TO ENVIRONMENTAL SCIENCE

STREAM: Y1 S1

TIME: 2 HOURS

DAY: FRIDAY, 9:00 A.M – 11:00 A.M

DATE: 02/12/2022

INSTRUCTIONS:

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

SECTION A (40 marks)- compulsory

- Describe the following terminologies:
 - Anoxia. (2marks)
 - Peat. (2marks)
 - Acid deposition. (2marks)
 - Leaching. (2marks)
 - Eutrophication. (2marks)
- Describe the causes of acid precipitation. (4marks)
- Briefly explain the following:
 - Global Warming. (3marks)
 - Climate Change. (3marks)
- Explain how the following factors influence population growth.
 - International migration. (5marks)
 - Increasing longevity. (5marks)
- Briefly discuss the impact of habitat destruction and biodiversity loss on organisms. (10marks)

SECTION B (30 MARKS)

6. Explain why the population of sub – Saharan Africa is projected to double by the year 2050 even if there is a substantial reduction of fertility levels in the near future. (15marks)
7. Describe the nitrogen cycle under the following:
 - (a) Biological nitrogen fixation. (8marks)
 - (b) Non- biological nitrogen fixation. (7marks)
8. Discuss the effects of acid rain on lakes. (15marks)