



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF
BACHELOR OF ARTS IN GEOGRAPHY
SECOND SEMESTER 2023/2024
[JAN – APRIL, 2024]

GEOG 123: BIOGEOGRAPHY

STREAM: Y1 S2

TIME: 2 HOURS

DAY: THURSDAY, 3:00 - 5:00 P.M.

DATE: 11/04/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE (Compulsory) and any other TWO questions.***

QUESTION ONE

- a) Explain the following terms: (10 Marks)
- i) Biodiversity (2 Marks)
 - ii) Biogeochemical cycle (2 Marks)
 - iii) Ecology (2 Marks)
 - iv) Ecological succession (2 Marks)
 - v) Speciation (2 Marks)
- b) Examine the three branches of biogeography (12 Marks)
- c) Differentiate between the following:
- i) Endemic and disjoint distributions (4 Marks)
 - ii) Food web and food chain (4 Marks)

QUESTION TWO

With the aid of a diagram, describe the stages and implications of the nitrogen cycle to the physical environment (20 Marks)

QUESTION THREE

Discuss the economic importance of biodiversity to a nation (20 Marks)

QUESTION FOUR

Using relevant example, explain the types of species interactions in an ecosystem (20 Marks)

QUESTION FIVE

Discuss the effects of human activities to an ecosystem (20 Marks)