



UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

**FIRST YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF EDUCATION (ARTS)**

GEOG 118: ENVIRONMENTAL GEOGRAPHY

STREAM: R

TIME: 2 HRS

DAY: TUESDAY [14.30 – 16.30]

DATE: 20/12/2022

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS: ANSWER QUESTIONS ONE AND ANY OTHER TWO QUESTIONS**QUESTION ONE****(30 MARKS)**

- (a) Giving examples, briefly explain the concept of ‘Ecological Citizenship’ as applied in Environmental Geography (3 marks)
- (b) Identify **TWO** physical processes and explain how they influence energy flow in an ecosystem (4 marks)
- (c) Identify and briefly explain **TWO** methods used in the valuation of environmental goods and services (4 marks)
- (d) Briefly explain **THREE** reasons why opportunity costs of environmental conservation are rarely considered in policy making processes in Kenya (3 marks)
- (e) Explain **THREE** ways in which global climate change indicators can affect species distributions (3 marks)
- (f) Giving examples, identify and briefly explain **FOUR** categories of environmental hazards (8 marks)
- (g) Illustrate and explain energy flow in a typical parasitic food chain (5 marks)

QUESTION TWO

- (a) Giving examples, briefly describe the role of ‘disturbance’ on ecosystem structure and functions (10 marks)
- (b) Identify and discuss **FIVE** ecological impacts of biological invasions in a fresh water aquatic ecosystem (10 marks)

QUESTION THREE

- (a) Identify and discuss **FIVE** key Environmental issues in Kenya (10 marks)
- (b) Expound on **FIVE** strategies used in ecosystem management (10 marks)

QUESTION FOUR

- i. Identify and explain **FIVE** ways in which sustainable urban systems can be maintained in developing countries (10 marks)
- ii. Giving examples, expound on different types of successions as depicted in the temporal changes of the ecosystems (10 marks)



QUESTION FIVE

- i. Briefly explain stages involved in environmental policy making process (10 marks)
- ii. Identify and briefly explain **THREE** primary factors induced by ongoing global climate that are linked to global change in sea levels (10 marks)

