

ALUPE UNIVERSITY

OFFICE OF THE DEPUTY VICE CHANCELLOR ACADEMICS, RESEARCH AND STUDENT AFFAIRS

UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER REGULAR MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

COURSE CODE: GEO 110

COURSE TITLE: THE EARTH'S PHYSICAL

ENVIRONMENTS

DATE: 20TH DECEMBER, 2023

TIME: 2.00pM - 5.00PM

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INSTRUCTION TO CANDIDATES

SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

GEO 110: THE EARTH'S PHYSICAL ENVIRONMENTS	
STREAM: BED (Arts) DURATION:	3 Hours
INSTRUCTIONS TO CANDIDATES	
i. Answer Question ONE and any other TWO questions.	
ii. Maps, sketches and diagrams should be used whenever they serve to	o illustrate the
answer.	
iii. Do not write on the question paper.	
Question One	
(a) Briefly discuss the concept of Earth-sun relations.	(4 marks)
(iii) Explain briefly characteristics of the following layers of atmosphere.	
Troposphere	(4 Marks)
Mesosphere	(4 Marks)
(b) (i) Describe the term physical environment?	(2 marks)
(ii) Discuss the History and Future of Physical Environment.	(10 Marks)
(c) Briefly describe the important future trends in physical environment studie	s and research.
	(6 Marks)
Question Two	
a) Highlight four major characteristics of rocksb) Using a well labelled diagram, describe the formation of mechar secimentary rocks.	(4 Marks) nically formed (6 Marks)
 c) Explain three reasons why sedimentary rocks are widespread in the c Kenya. 	
d) Us ng well labelled diagrams describe two major causes of cr	ustal isostatic
adjustments.	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(8 Marks)

Question Three

a) Ellucidate the role of ANY TWO of the following processes of the water cycle.

Percolation (4 Marks) i.

(4 Marks) ii. Evapotranspiration

11.11

iii. Surface runoff
 iv. Infiltration
 (4 Marks)
 (4 Marks)
 (5 Explain importance of hydrological cycle to human activities.
 (12 Marks)

Question Four

a) Describe the theory of continental drift theory citing the evidences that supports it.

(12 Marks)

b) Explain how the following features of faulting process were formed

(i) Horst Mountain

(4 Marks)

(ii) Rift valley

(4 Marks)

Question Five

a) With an aid of well labeled diagram, describe world pressure and wind patterns.

(10 Marks)

b) Explain the effects of world pressure and wind patterns to world climatic zones.

(10 Marks)