

GEO 322



ALUPE UNIVERSITY

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

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER REGULAR MAIN
EXAMINATION

FOR THE DEGREE OF BACHELOR OF
EDUCATION (ARTS)

COURSE CODE: GEO 322

COURSE TITLE: GEOMORPHOLOGY

DATE: 22ND APRIL, 2024

TIME: 9.00AM – 12.00PM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

GEO 322: GEOMORPHOLOGY

STREAM: BED (Arts)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

- i. *Answer Question ONE and any other TWO questions.*
- ii. *Maps and diagrams should be used whenever they serve to illustrate the answer.*
- iii. *Do not write on the question paper.*

Question One

- a) Briefly explain the meaning of the following terms:
 - i) Landscape (2 Marks)
 - ii) Morphometrics (2 Marks)
- b) Citing relevant examples, explain FOUR main categories of landforms (8 Marks)
- c) Differentiate between joints and faults in relation to brittle rocks (2 Marks)
- d) Explain physical proofs that crustal drift is still ongoing today (4 Marks)
- e) Elucidate the role of applied geomorphology in the study of landforms (8 Marks)
- f) You are required to study a physical landform located near your institution. Explain how you will determine its:
 - i. Structure (2 Marks)
 - ii. Developmental process (2 Marks)

Question Two

- a) Describe the formation of any two aeolian landforms (10 Marks)
- b) Highlight significance of aeolian processes to man (10 Marks)

Question Three

- a) Describe the plate tectonic theory and highlight major resultant landforms. (12 Marks)
- b) Explain how the following models are used to explain forces responsible for plates movement:
 - i) Convectional currents hypothesis (4 Marks)
 - ii) Hot plumes hypothesis (4 Marks)

Question Four

- a) Differentiate between weathering and mass wasting. (2 Marks)
- b) Discuss factors which influence mass wasting (10 Marks)
- c) Explain how the following weathering processes occur:
 - i) Solution (4 Marks)
 - ii) Oxidation (4 Marks)

Question Five

Describe formation of any FOUR landforms associated with explosive eruptions (20 Marks)
