

GEO 210



ALUPE UNIVERSITY

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

UNIVERSITY EXAMINATIONS

2024/2025 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER REGULAR MAIN
EXAMINATION

FOR THE DEGREE OF BACHELOR OF
EDUCATION

COURSE CODE: GEO 210

COURSE TITLE: INTRODUCTION TO CARTOGRAPHY

DATE: 7TH JANUARY, 2025

TIME: 8.00AM – 11.00AM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

GEO 210: INTRODUCTION TO CARTOGRAPHY

STREAM: BED

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

- i. *Answer Question ONE and any other TWO questions*
- ii. *Do not write on the question paper.*

Question One

- a) Briefly explain the meaning of the following terms as used in cartography:
 - i. Coordinate system (2 Marks)
 - ii. Map orientation (2 Marks)
 - iii. Map symbolization (2 Marks)
- b) Maps have been important to man since time immemorial. Justify this statement. (10 Marks)
- c) Examine the significance of the main steps followed by cartographers in map making process. (10 Marks)

Question Two

- a) With relevant illustration, justify why cartography is regarded as both an art and a science. (4 Marks)
- b) Using illustrations, describe how a cartographer would use contours to depict the following on a topographical map:
 - i. A convex slope (4 Marks)
 - ii. A concave slope (4 Marks)
 - iii. A hill (4 Marks)
 - iv. A depression (4 Marks)

Question Three

- a) Explain the meaning of the term 'plottable error' as used in cartography (2 Marks)
- b) Calculate the plottable error on actual ground of the following map scales if the drafting line is accurate at 0.25mm (show your working):
 - i. Miloyo 1:5,000 (4 Marks)
 - ii. Yimbo 1: 25,000 (4 Marks)
- c) Outline any FIVE essential elements of a map and their uses. (10 Marks)

Question Four

- a) Distinguish between general purpose and thematic maps. (4 Marks)
- b) With help of suitable illustrations, describe any FOUR types of quantitative thematic maps. (16 Marks)

Question Five

- a) Explain the meaning of the following terms:
 - Map generalization (2 Marks)
 - Map projection. (2 Marks)
- b) Using suitable illustrations, explain the difference between geographic coordinate system and Mercator coordinate system. (6 Marks)
- c) Using relevant examples examine FIVE methods of cartographic generalization. (10 Marks)
