

GEO 225



ALUPE UNIVERSITY

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

UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER REGULAR MAIN
EXAMINATION

FOR THE DEGREE OF BACHELOR OF
EDUCATION (ARTS)

COURSE CODE: GEO 225

COURSE TITLE: TECHNIQUES IN PRACTICAL GEOGRAPHY AND
FIELDWORK

DATE: 19TH APRIL, 2024

TIME: 2.00PM – 5.00PM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

GEO 225: TECHNIQUES IN PRACTICAL GEOGRAPHY AND FIELDWORK**STREAM: BED (Arts)****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

Study the map of Mazeras 198/3 provided to the questions which follow.

- a) Use a tracing paper to delimit the drainage basin with the base level at grid reference 597750 (8 Marks)
- b) Based on Strahler's stream ordering approach prepare a table showing stream order and the number of segment (2 Marks)
- c) Calculate:
 - i) Drainage basin area (4 Marks)
 - ii) Bifurcation ratio between Order 1 and Order 2 (2 Marks)
- d) As a teacher of geography at Shimo la Tewa School at Southeastern part of the map you are planning to take students out for fieldwork at Kaya Bomu forest to study management and conservation of forest cover
 - a. Which fieldwork approach would you use in this fieldwork (1 Mark)
 - b. Formulate the main objective appropriate for this fieldwork (2 Marks)
- e) Explain how aerial photography was useful to cartographers in the process of making the map (3 Marks)
- f) Describe the process of survey work used in preparation of the map (8 Marks)

Question Two

- a) Describe the human settlement on the map of Mazeras 198/3 Kenya in terms of:
 - i) Physical factors (4 Marks)
 - ii) Socio-cultural factors (4 Marks)
- b) Explain main classifications of survey based on purpose (12 Marks)

Question Three

- a) Using suitable examples, explain how the following are determined on a photograph:
 - i) Scale of the photography (4 Marks)
 - ii) Nature of features (4 Marks)
 - iii) Size of features (4 Marks)

- b) Explain the characteristics of effective convectional signs and symbols of a map (8 Marks)

Question Four

- a) Explain importance of survey (10 Marks)
- b) You are required to conduct fieldwork in an area prone to mass wasting 10km away from Alupe University. Discuss problems you are likely to face while in the field (10 Marks)

Question Five

- a) With reference to urban settlement and using suitable illustration explain how settlement form can be distinguished from settlement distribution (10 Marks)
- b) Discuss suitable methods which can be used in recording data collected during fieldwork of study of soils in Busia County (10 Marks)
