



ALUPE UNIVERSITY
COLLEGE

Bastion of Knowledge...

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**OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, RESEARCH AND STUDENT AFFAIRS**

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER REGULAR EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUATION ARTS

COURSE CODE: GEO 210

COURSE TITLE: INTRODUCTION TO CARTOGRAPHY

DATE: 11- 3 - 2021

TIME: 2.00 – 5.00 PM

INSTRUCTION TO CANDIDATES

- **SEE INSIDE**

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

STREAM: BED (Arts)

DURATION: 3 Hours

INSTRUCTIONS TO CANDIDATES

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

GEO 210: INTRODUCTION TO CARTOGRAPHY

STREAM: BED (Arts)

DURATION: 3 Hours

Question One

- a) In 1611, A French astronomer, Jean Richer defined the shape of the Earth as oblate ellipsoid. Critique this concept cartographically. (6 Marks)
- b) Calculate the vertical exaggeration from a vertical scale of 1:5 and 1:50,000 horizontal scales. (2 Marks)
- c) Describe any FOUR of the following types of maps: (16 marks)
 - i. Cadastral
 - ii. Political
 - iii. Thematic
 - iv. Qualitative city
 - v. Communication maps
- d) Explain three ways in which cartography study show direction on a topographical map. (6 Marks)

Question Two

- a) By use of some sketches, illustrate how square or grid methods are used to enlarge or reduce the area covered by the map. (10 Marks)
- b) Compare the use of similar triangle method and a cartographic method to reduce or enlarge a map after which draw a conclusion. (10 Marks)

Question Three

- a) Explain five symbols usually located in the marginal section of information on the topographical map. (10 Marks)
- b) Use a simple sketch to illustrate how a linear scale is used to locate points on a topographical map. (10 Marks)

Question Four

- a) Outline five steps taken to construct a cross-section of the map extract as a way of capturing geographical volumes of the land surface. (10 Marks)
- b) Explain five challenges that cartographers face when constructing a cross-section. (10 Marks)

Question Five

- a) Compare a two and three dimension grid references and provide your conclusion (10 Marks)
- b) Basing on contour lines, illustrate a plateau and a basin. (10 Marks)
