



OFFICE OF THE DEPUTY PRINCIPAL
ACADEMICS, RESEARCH AND STUDENT AFFAIRS

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

SECOND YEAR FIRST SEMESTER REGULAR MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

COURSE CODE: GEO 210

COURSE TITLE: INTRODUCTION TO CARTOGRAPHY

DATE: 28TH JANUARY, 2022

TIME: 2.00PM – 5.00PM

INSTRUCTION TO CANDIDATES

- SEE INSIDE

THIS PAPER CONSISTS OF 3 PRINTED PAGES

PLEASE TURN OVER

GEO 210: INTRODUCTION TO CARTOGRAPHY

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 illustrate the answer*
- iii. Do not write on the question paper.*

Question One

- a) Define the following terms as used in cartography:
 - i. Map (2 Marks)
 - ii. Cartography (2 Marks)
 - iii. Datum (2 Marks)
 - iv. Map design (2 Marks)
 - v. Map scale (2 Marks)
- b) Briefly describe TWO major global coordinate system used in cartography (4 Marks)
- c) Describe the following methods of generalization as used in cartography:
 - i. Smoothing (4 Marks)
 - ii. Enhancement (4 Marks)
 - iii. Simplification (4 Marks)
 - iv. Combination (4 Marks)

Question Two

- a) Explain the meaning of the following concepts:
 - i. Map reading (2 Marks)
 - ii. Map analysis (2 Marks)
 - iii. Map interpretation (2 Marks)
- b) What do you understand by the term map projection? (2 Marks)
- c) Explain FOUR main types of map projection. (12 Marks)

Question Three

- a) Highlight the significance of plottable error to map a user? (2 Marks)
- b) Calculate the plottable error on actual ground of the following map scales if the drafting line is accuracy is at 0.25mm (show your working):
 - i. Kiunga 1:5,000 (4 Marks)
 - ii. Maombo 1: 50,000 (4 Marks)
- c) Trace the history of the development of cartography highlighting its key landmarks. (10 Marks)

Question Four

- a) Distinguish between qualitative and quantitative thematic maps. (4 Marks)
- b) Using illustrations, describe any FOUR types qualitative thematic maps. (16 Marks)

Question Five

- a) Explain the uses of the following types of maps.
 - i. Geological maps (3 Marks)
 - ii. Political maps (3 Marks)
 - iii. Cadastral maps (3 Marks)
 - iv. Bathymetric maps (3 Marks)
- b) Explain the role of GIS in map making process. (8 Marks)
