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**KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**UNIVERSITY EXAMINATION, 2023/2024 ACADEMIC YEAR**  
**FIRST YEAR, FIRST SEMESTER EXAMINATION**  
**FOR THE DEGREE OF BACHELOR OF EDUCATION(ARTS)**  
**KGE 2102: CARTOGRAPHY AND MAP ANALYSIS**

Date: 13<sup>th</sup> December 2023

Time: 2:30pm-4.30pm

INSTRUCTIONS TO CANDIDATES:

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Define the following terms:
- Map. [2 Marks]
  - Cartography. [2 Marks]
  - Map Projection. [2 Marks]
- b) Describe the qualities of a good map. [5 Marks]
- c) Describe the history of Cartography. [6 Marks]
- d) Identify **four** types of maps. [2 Marks]
- e) Discuss the uses of maps. [6 Marks]
- f) Explore the problems encountered in representing physical features on maps. [5Marks]

QUESTION TWO (20 MARKS)

- a) Exerminate the history of Cartography. [8Marks]
- b) Discuss the major components of map compilation. [7Marks]
- c) Explain who Claudius Ptolemy's was and what his legacy to Cartography is. [5 Marks]

QUESTION THREE (20 MARKS)



- a) Using examples, distinguish between the following terms:
- i. General and Thematic map [5 Marks]
  - ii. Small scale and large scale. [5 Marks]
- b) The scale of a map is 1: 50,000 and the map distance from point B to C is 4cm. The contour units are given as follows, 600 and 1600. Calculate the gradient of the land. [6 Marks]
- c) Label the map elements a, b, c, d, e, f, g, h shown in the figure below: [4 Marks]

**QUESTION FOUR (20 MARKS)**

- a) Using examples, explain some of the methods used in the preparation of various types of maps. [10 Marks]
- b) Examine **three** factors that must be considered in the use of conventional signs in Cartography. [6Marks]
- c) Briefly describe of a title and a subtitle in a map. [4 Marks]

**QUESTION FIVE (20 MARKS)**

- a) Explain the use of frame line, neat line and graticules in a map. [6 Marks]
- b) Give an overview of map scale and explain how it is used in maps [5 Marks]
- c) Describe the essential steps to be undertaken in implementing a good map design process. [5 Marks]
- d) State the **four** processes which are involved in Cartography. [4 Marks]
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