



# MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 100: INTRODUCTION TO CARTOGRAPHY AND MAP ANALYSIS

DATE: 3/12/2019

TIME: 2.00-4.00 PM

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**INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS**

## QUESTION ONE (30 MARKS)

- a) Explain the term cartography (3 marks)
- b) Explain what is map layout and what are the essential factors (4 marks)
- c) Provide a comprehensive overview of relief, thematic and choropleth maps and give some examples of them (4 marks)
- d)
  - i Name 3 methods of representing scale on a map (3 marks)
  - ii Explain inset map (2 marks)
- e)
  - i Identify at least four different map projections (2 marks)
  - ii What are the three important characteristics of projections? (3 marks)
- f) Name 3 methods of abstraction used in making maps (3 marks)
- g)
  - i Give a brief description of a title and a subtitle in a map (3 marks)
  - ii State the differences between conventional cartography and digital cartography (3 marks)

## QUESTION TWO (20 MARKS)

- a) Explain FOUR factors that must be considered in use of conventional signs in cartography (8 marks)
- b) Discuss the major components of map compilation (12 marks)

**QUESTION THREE (20 MARKS)**

- a) Using examples, distinguish between the following terms:
  - i. General and Thematic maps (3 marks)
  - ii. Topographical and Topological maps (4 marks)
  - iii. Small scale and large scale (3 marks)
  - iv. Map and Plan (3 marks)
- b) Briefly describe some of the applications of maps (7 marks)

**QUESTION FOUR (20 MARKS)**

- a) Using examples explain some of the methods used in the preparation of various types of maps (6 marks)
- b) Maps can be classified based on their functions. Explain any three classes (6 marks)
- c) Why are map projections so important in map production (8 marks)

**QUESTION FIVE (20 MARKS)**

- a) i Explain the use of Frame line, Neat line and graticules in a map (6 marks)
- ii Give an overview of map scale and explain how it is used in maps (6 marks)
- b) i State the four processes which are involved in cartography (4 marks)
- ii Label the map elements; a, b, c, d, e, f, g, h shown in the figure below (4 marks)

