



MACHAKOS UNIVERSITY

University Examination for 2023/2024 Academic Year

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF ARTS (SPECIAL NEEDS EDUCATION)

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 100: INTRODUCTION TO CARTOGRAPHY AND MAP ANALYSIS

DATE:

TIME:

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS.

QUESTION ONE

- a) Distinguish between the following concepts:
 - i. Cartography and draftsmanship (4marks)
 - ii. Map reading and map analysis (4marks)
- b) Explain why cartography is defined as an art, science and technology (12marks)
- c) Describe five uses of maps in the geographical field today (10marks)

QUESTION TWO

- a) Explain how modern technological developments have influenced cartography (10marks)
- b) Discuss advantages of digital maps over paper maps (10marks)

QUESTION THREE

- a) Using contour lines and values draw; river valley, hill, mountain range, escarpment and a depression (10 marks)
- b) Explain any five methods of representing relief in topographic maps (10marks)

QUESTION FOUR (20 MARKS)

Describe the factors that govern map design and explain five map design principles

QUESTION FIVE (20 MARKS)

Describe the basic characteristics of base maps and explain its basic elements