MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF HUMANTIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

……………..YEAR …………….SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

AGE 100: CARTOGRAPHY AND MAP ANALYSIS

DATE: **TIME:**

INSTRUCTIONS:

ANSWER QUESTION ONE AND OTHER TWO QUESTIONS, AT LEAST ONE QUESTION FROM EACH SECTION.

SECTION A: COMPULSORY

QUESTION ONE (COMPULSORY) (30 MARKS)

a)   Distinguish between the following concepts:

        i.   Cartography and draftsmanship   (4 marks)

        ii.   Map reading and map analysis   (4 marks)

b)   Explain different sources of data for mapping   (6 marks)

c)   Assess the major development of cartography since 20th Century   (8 marks)

d)   Describe any two methods used in map drawing   (4 marks)

e)   Asses the role of scale in cartography and map analysis   (4 marks)

SECTION B: CARTOGRAPHY

QUESTION TWO (20 MARKS)

a)   Describe any four elements of a base map   (8 marks)

b)   Assess any four factors governing map design   (12 marks)

QUESTION THREE (20 MARKS)

a) Explain different types of maps and show their importance in the contemporary society

(9 marks)

b) Discuss the statement that "Cartography is a science, art and technology"   (11 marks)

SECTION C: MAP ANALYSIS

QUESTION FOUR (20 MARKS)

a) State Horton's law and evaluate its application in cartography and map analysis   (12 marks)

b) Describe four symbols used on map to depict geographical phenomena   (8 marks)

QUESTION FIVE (20 MARKS)

a) Explain the following concepts:

    i.   Bifurcation ratio   (3 marks)

    ii.   Drainage density   (3 marks)

b) Using illustrations, Clarify two qualitative and two quantitative methods used in topographic maps to depict relief.   (14 marks)