



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF HUMANTIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION

BACHELOR OF ARTS

AGE 200: QUALITATIVE AND QUANTITATIVE TECHNIQUES IN GEOGRAPHY

DATE: 9/12/2021

TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer Question One and Any Other Two Questions.

Use illustrations where appropriate

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain the need for qualitative techniques in Geography. (4 marks)
- b)
 - i. Briefly explain the concept of statistics. (3 marks)
 - ii. Give reasons for using statistics in Geography. (3 marks)
- c) Elaborate on the following terms; stratified sampling, probability and unlikely event . (6 marks)
- d)
 - i. Examine the strengths and weaknesses of interview as a method of data collection. (6 marks)
 - ii. Explain the computation of range as a measure of dispersion. (2 marks)
- e) Explain the characteristics of a normal distribution. (6 marks)

QUESTION TWO (20 MARKS)

The following are ages of children in a county primary school

10, 9, 8, 12, 12, 7, 12, 12, 6, 5, 11, 12, 14, 12, 4, 15, 7, 12, 10 and 12

- a) Explain how you will determine measures of central tendency (10 marks)
- b) Calculate the range and standard deviation of the dataset (10 marks)

QUESTION THREE (20 MARKS)

- a) Explain four scales of measurement (8 marks)
- b) Examine the need for the levels of measurement (6 marks)
- c) Discuss the assumptions of Probability Theory (6 marks)

QUESTION FOUR (20 MARKS)

- a)
 - i. Explain the term hypothesis (6 marks)
 - ii. Differentiate between null and alternative hypothesis (4 marks)
 - iii. Elaborate the need for using hypothesis in Geography (4 marks)
- b) Evaluate the process of hypothesis testing for a 't' test (6 marks)

QUESTION FIVE (20 MARKS)

- a) Elucidate how you can use questionnaire as a qualitative method (8 marks)
- b) Compare and contrast between qualitative and quantitative techniques in Geography.
(12 marks)