



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF HUMANITIES 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: 20/8/2021

TIME: 11:00 – 1:00 PM

INSTRUCTIONS: Answer Question 1 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 two sources of geographical data (4 marks)
- e) Explain the characteristics of a normal distribution (4 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 (6 marks)
- b) Calculate the range and standard deviation of the dataset (8 marks)
- c) Using examples, explain any two probability sampling techniques. (6 marks)

QUESTION THREE (20 MARKS)

- a) Discuss four scales of measurement (8 marks)
- b) Examine the need for the levels of measurement (6 marks)
- c) Two coins are tossed, find the probability that, two heads are obtained (2 marks)
- d) Explain the aim of fieldwork research (4 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 (6 marks)

QUESTION FIVE (20 MARKS)

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