



MACHAKOS UNIVERSITY

UNIVERSITY EXAMINATIONS 2022/2023

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
AND BACHELOR OF ARTS**

MAIN EXAM

AGE 200: QUALITATIVE AND QUANTITATIVE TECHNIQUES IN GEOGRAPHY

DATE..... TIME.....

INSTRUCTIONS:

ANSWER QUESTION ONE AND TWO OTHER QUESTIONS. USE ILLUSTRATIONS WHERE NECESSARY

SECTION A: COMPOUSORY (30 Mks)

- 1 a).Distinguish between the following:
- i. Inferential and descriptive statistics (6 Mks)
 - ii. Ordinal and nominal scale (4 Mks)
 - iii. Population and sample (4Mks)
- b). State TWO characteristics of a nominal distribution curve (2 Mks)
- c). Explain the sources of empirical data in geographical studies (2Mks)
- d). State the law of addition and multiplication in probability theory (6Mks)
- e).Assess the role of statistics in geographic research (6Mks)

SECTION B

- 2 a). Define the terms
- i. Continuous data (2 Mks)
 - ii. Confidence level (2Mks)
- b). Assess the role of statistics in geographical research (6 Mks)
- c). Explain the procedure of testing an hypotheses (6Mks)
- d).Describe the use of any two statistical methods of organizing and presenting of geographic data (4Mks)

- 3 .a) Determine the range and standard deviation of the following data: 37, 37, 28, 33, 32, 30, 34

- b) Assess the importance of calculating range and standard deviation (8 Mks)
(6 Mks)
- c).Use the above data to compute mean and mode (4 Mks)
- d).What is the usefulness of mean in data analysis (2 Mks)
- 4 a). Assume that you are preparing to carry out a study on a topic of your own:
- i. State two objectives of the study (2 Mks)
 - ii. State two hypotheses of the study (2 Mks)
- b). Describe the criterial for the selection of a statistical test (6 Mks)
- c). Explain the concept of probability in geographical studies (4Mks)
- d). What is the importance of using questionnaire as a method of data collection (6Mks)
- 5 a). Assess the different methods of qualitative research. (10Mks)
- b).Describe the non-probabilistic sampling methods (10Mks)