



MACHAKOS UNIVERSITY

University Examinations 2017/2018

SCHOOL OF HUMANITIES AND SOCIAL SCIENCE

DEPARTMENT OF SOCIAL SCIENCES

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (SCIENCE)

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 200: QUALITATIVE AND QUANTITATIVE TECHNIQUES IN GEOGRAPHY

DATE: 19/12/2017

TIME: 11:00 – 1:00 PM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Distinguish between:
 - i. Discrete and continuous data. (4 marks)
 - ii. Parameter and statistics. (4 marks)
 - iii. Variable and sample. (4 marks)
- b) Explain the importance of using statistics in geographical studies. (6 marks)
- c) State the characteristics of a normal distribution. (3 marks)
- d) Define sampling error and explain its causes and effects. (6 marks)
- e) Explain the aim of field work research. (3 marks)

QUESTION TWO (20 MARKS)

- a) Discuss four scales of measurements. (12 marks)
- b) Describe the procedure of calculating chi-square test. (8 marks)

QUESTION THREE (20 MARKS)

- a) Differentiate between measures of central tendency and measures of dispersion.(4 marks)
- b) The following are the age of children in Machakos Primary School.
10,9,8,12,12,7,12,12,6,5,11,12,14,12,4,15,7,12,10 and 12.
 - i) Prepare a frequency distribution table. (4 marks)
 - ii) Compute two measures of central tendency. (4 marks)
- c) Calculate the range and standard deviation of the data set. (8 marks)

QUESTION FOUR (20 MARKS)

- a) Describe the steps in testing an hypothesis. (8 marks)
- b) Explain any three probability sampling techniques. (12 marks)

QUESTION FIVE (20 MARKS)

- a) Giving examples, explain the concept of probability in geographical studies. (6 marks)
- b) Discuss two qualitative methods of data collection. (8 marks)
- c) Explain the criteria for the selection of a statistical test. (6 marks)