



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF SCIENCE (COMMUNITY RESOURCE MANAGEMENT)

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

ESU 304: RESEARCH METHODS

DATE: 24/3/2021

TIME: 2.00-4.00 PM

INSTRUCTIONS;

Answer question ONE and any other TWO questions

QUESTION ONE (30 MARKS)

Differentiate between the following.

- a) Target population and Sample population (6 marks)
- b) Sampling unit and Sampling frame (6 marks)
- c) Correlation and Experimental research (6 marks)
- d) Stratified and Systematic sampling (6 marks)
- e) Validity and reliability (6 marks)

QUESTION TWO (20 MARKS)

- a) Explain the meaning and purpose of research (10 marks)
- b) Discuss the factors to consider to ensure good quality research. (10 marks)

QUESTION THREE (20 MARKS)

- a) Giving examples, discuss the three types of hypotheses. (12 marks)
- b) Discuss the difference between dependent and independent variables and explain how they are used in research designs. (8 marks)

QUESTION FOUR (20 MARKS)

Discuss the practical steps of the research process .

QUESTION FIVE (20 MARKS)

Discuss the types of data and the scales of measurement considered during data analysis.

(20 Marks)