KISII UNIVERSITY

UNIVERSITY EXAMINATIONS.

THIRD YEAR EXAMINATION FOR THE AWARD OF THE

DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICS

SECOND SEMISTER 2021/2022

(JANUARY-APRIL EXAMINATIONS)

BACS400: RESEARCH METHODS

STREAM: Y3 S2

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and any other TWO Questions.

Question One

- a) Discuss the steps followed in the research process followed in writing a research proposal. (10 marks)
- b) Discuss five limitations of non empirical sources of knowledge. (10 marks)
- c) Discuss five qualities of a good research. (10 marks)

Question Two

- a) Discus any FIVE (5) limitations of logic as a source of knowledge. (10 marks)
- b) Discuss any FIVE (5) characteristics of science as a source of knowledge. (10 marks)

Question Three

Using suitable examples differentiate between independent and dependent variables. (4 marks)

- a) Highlight the features of a good research design. (6 marks)
- b) Mary is a study who is about to write her research proposal. Explain to her why it is important for her to critically review literature. (10 marks)

Question Four

a) Discuss FIVE sampling methods that a researcher can use.(10 marks)

b) Discuss any FIVE (5) ethical aspects to be considered in writing a research proposal. (10 marks)