



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

**SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTUARIAL
SCIENCES**

UNIVERSITY EXAMINATION FOR DEGREE IN ACTUARIAL SCIENCE

EXAM 2022/2023

MAIN REGULAR

COURSE CODE: WAB 2313

COURSE TITLE: RESEARCH METHODOLOGY

EXAM VENUE

STREAM: B.Sc. Actuarial Science with IT

DATE:.....

EXAM SESSION: ONE

TIME: 3 HOURS

Instructions:

- 1. Answer ONE in section A and any other two questions in section B**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A 40 MARKS

- a). Explain two primary methods of data Collection. [2 Marks]
- b). Explain the following types of research; [3 Marks]
- i. Conceptual Research
 - ii. Casual Research
 - iii. Applied Research
- c). Distinguish between research methods and research methodology [2 Marks]
- d). Explain the following as used in research; [3 Marks]
- i. Research Proposal
 - ii. Hypothesis
 - iii. Qualitative Data
- e). Explain three ethical issues to be put in consideration during primary and secondary data collection [6 Marks]
- f). Differentiate between probability and Non probability sample design [2 Marks]
- g). Explain four characteristics of a well stated research problem [4 Marks]
- h). State and Explain two elements of Data Analysis [2 Marks]
- i). Identify a Research Topic and Briefly Illustrate the following; [6 Marks]
- i. Aim of the Study
 - ii. Two objectives of your study
 - iii. Null and Alternative Hypothesis of your Study

SECTION B: 40 MARKS

QUESTION ONE

- a) Explain **FIVE** reasons why research is important [5 Marks]
- b) Outline Research Processes [5 Marks]
- c) Highlight **FIVE** factors to consider when highlighting Research Topic [5 Marks]
- d) State **FIVE** components of an introduction section of a research report [5 Marks]

QUESTION TWO

- a) Explain **THREE** advantages and **THREE** disadvantages of sampling during data collection. [12 Marks]
- b) Explain **FOUR** main Sampling Techniques [8 Marks]

QUESTION THREE

- a) Explain the meaning of Research Process. [1 Mark]
- b) Explain **FIVE** reasons why literature review is important in the research process. [10 Marks]
- c) Identify **FIVE** sources of literature available for researchers [5 Marks]

- d) Explain **TWO** ways available for researchers to use information gathered from literature sources without accusation of plagiarism [4 Marks]

QUESTION FOUR

- a) Identify a research topic and briefly illustrate the following: [9 Marks]
- i. THE Aim of the Study
 - ii. TWO Objectives of the study
 - iii. NULL and ALTERNATIVE Hypothesis of the research
- b) List and explain **FOUR** research instruments that can be used in your research [8 marks]
- c) State **THREE** ways that you can use to share your research findings [3 Marks]