



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**THIRD YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE
OF BACHELOR OF SCIENCE IN HORTICULTURE AND SOIL SCIENCE
2017/2018 ACADEMIC YEAR**

REGULAR

COURSE CODE: AFB 3311and ALS 3311

COURSE TITLE: RESEARCH METHODS

EXAM VENUE: LR 3

STREAM: BSc. Horticulture and BSc. Soil Science

DATE:13.12.17

EXAM SESSION: 2.00 – 4.00PM

TIME: 2 HOURS

Instructions:

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

SECTION A: [30 MARKS]

Answer ALL questions from this Section.

QUESTION ONE [SIX MARKS]

State meanings of the following terms:

- a. Population [2 Marks]
- b. Sample [2 Marks]
- c. Problem statement [2 Marks]

QUESTION TWO [SIX MARKS]

State three characteristics of:

- i. Good purpose statement [3 marks]
- ii. Good hypothesis [3 marks]

QUESTION THREE [NINE MARKS]

- a. List four indicators of a good review of literature [4marks]
- b. Identify three sources of literature review [3 marks]

QUESTION FOUR [NINE MARKS]

- a. i. Distinguish between qualitative and quantitative research [2 marks]
- ii. Define descriptive statistics and identify two types [3 marks]
- b. i. What is correlational research [2 marks]
- ii. State two purposes of correlational research [2 marks]

SECTION B: [40 MARKS]

Answer ANY TWO questions from this Section.

QUESTION FIVE [20 MARKS]

- a. i. Briefly state the purpose of evaluation research [2 marks]
- ii. Briefly describe three types of observational research [6 marks]

- b. i. Outline two biased statements a researcher may use in expressing the purpose of a study [2 marks]
- ii. Outline two neutral statements allowed in expressing the purpose of a study [2 marks]
- c. i. Outline steps taking in managing raw data from the field [4 mark]
- ii. What are measures of variability [2marks]
- iii. Explain the information a researcher can derive from measures of variability [2 marks]

QUESTION SIX [20 MARKS]

- a. Discuss the importance of literature review [6 marks]
- ii. Identify and briefly explain two sources of literature review [6 marks]
- b. Identify two methods of referencing within a text [4 marks]
- c. Identify the type of referencing that has been used in the following texts [4 marks]
- i. Mugenda, O. (1999). *Redefining and Actualizing the Research Mission in African Universities*. Paper presented at the BOLESWA Educational Research Symposium, Maseru, Lesotho, July, 1999.
- ii. Among social factors that affect influence perception, personal grooming has been found to relate directly to positive first impression (Mary and Young, 2016)

QUESTION SEVEN [20 MARKS]

- a. Define evaluation research stating its purpose [5 marks]
- b. Explain three types of evaluation research [9 marks]
- c. Distinguish between descriptive and comparative research [6 marks]

QUESTION EIGHT [20 MARKS]

- a. i. What is sampling procedure [1mark]
- ii. Briefly explain why random sampling is preferred in sampling process [3 marks]
- b. i. Describe the steps involved in stratified random sampling [6 marks]
- ii. Distinguish between systematic and stratified random sampling [6 marks]
- c. Interview method is commonly used in data collection. Outline reasons why this is so [4marks]