



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

**THIRD YEAR SEMESTER ONE UNIVERSITY EXAMINATION FOR DEGREE OF
BACHELOR OF SCIENCE IN FOOD SECURITY**

2022/2023 ACADEMIC YEAR

REGULAR

COURSE CODE: AAS 3324

COURSE TITLE: RESEARCH METHODS IN FOOD SECURITY

EXAM VENUE:

STREAM: BSC FOOD SECURITY

DATE:

EXAM SESSION:

TIME:

Instructions

- 1. Answer ALL questions in Section A (compulsory) and ANY 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**
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SECTION A [30 Marks]

1. Define the following terms (5 marks)
 - a) Research
 - b) Quota sampling
 - c) Hypothesis
 - d) Systematic sampling
 - e) Primary data
2. Ethics have become a central consideration in any research endeavor. Briefly explain the following ethical issues in a food security research project to evaluate the effect of supplementary feeding on fortified porridge on opportunistic disease susceptibility of HIV-positive children under the age of two years in Luanda Sub-county:
 - a. Voluntary participation (2 Marks)
 - b. Informed consent (2 Marks)
 - c. Risk of harm (2 Marks)
 - d. Confidentiality and anonymity (2 Marks)
3. State the advantages of randomized complete block design over completely randomized design (2 marks)
4. Differentiate between structured and semi-structured approaches of data collection (3 marks)
5. Giving relevant examples for each, differentiate between the following: (8 marks)
 - a) Action research and ethnography
 - b) Research methods and research methodology
 - c) Obtrusive and unobtrusive methods of data collection
6. Explain conditions under which semi-structured approach of data collection is used (4 marks)

SECTION B [40 Marks]

Answer any two questions in this section

7. Discuss focus group discussions, a tool for data collection, highlighting its advantages and disadvantages (20 marks)
8. Bondo town and the Nyanza region, in general, are characterized by hot ambient temperatures. This greatly diminishes their utilization, availability, and accessibility. The county government has approached you to develop a proposal to improve this situation so as to improve food security in the area. But before making any recommendations, baseline data is needed on post-harvest handling of vegetables in local markets and homes.
 - a) Advise on the best research design to use and why in the collection of the baseline data (2 marks)
 - b) What is the research problem under investigation (2 marks)
 - c) Develop a broad objective for your study (2 marks)
 - d) Develop a specific objective for your study (2 marks)
 - e) Write a hypothesis for your specific objective (2 marks)
 - f) Write short notes on the other components of your research proposal using the above example as your content (10 marks)
9. Compare and contrast an interview over a questionnaire as a tool for data collection (20 marks)

