



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

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

2016/2017 ACADEMIC YEAR

REGULAR

COURSE CODE: AFB 3312

COURSE TITLE: RESEARCH METHODS IN FOOD SECURITY

EXAM VENUE:

STREAM: BSc. (Food Security)

DATE:

EXAM SESSION:

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)

1. Differentiate the following terms
 - a) Objective of research and motivation of research 2 marks
 - b) Null and alternate hypothesis 2 marks
 - c) Action and ethnographic research 2 marks
 - d) Cross-sectional and longitudinal research 2 marks
 - e) Range and interquartile range 2 marks
2. Briefly describe indicators that can be used to measure food insecurity using a survey method of data collection (5marks)
3. Elucidate three important measures of central tendency showing their relevance in data analysis (6 marks)
4. Outline platforms that are commonly used to disseminate research findings (4 marks)
5. Define the term plagiarism and its relevance and or implications in research (5 marks)

SECTION B: 40 MARKS (Answer ANY TWO questions from this Section)

6. HIV&AIDS is still a major problem in Kenya despite the many sensitization campaigns. Apart from cultural practices, food insecurity is a major factor towards expression of opportunistic diseases. Pregnant HIV women are particularly vulnerable to opportunistic infections if they do not access a balanced diet to boost their immunity. As a student of food security, you have been tasked with developing a proposal to measure the effects of food insecurity on prevalence of opportunistic diseases with regard to pregnant women in Bondo constituency. Using this information
 - a) Write a suitable topic for your proposal
 - b) What is the problem you are trying to address by your research?
 - c) State two objective(s) of your research topic
 - d) State the null hypotheses of your specific objectives
 - e) Write short notes on the other components of the research proposal using the above information as your context (20 marks)
7.
 - a) Explain the guiding considerations in the construction of questionnaire? (10 marks)
 - b) Illustrate the merits and demerits of open and closed ended questions in a questionnaire (10 marks)
8. Selection of a representative sample of the population which is synonymous with census, is very important in reducing time and cost. Briefly outline the various methods of determining sample design from a given population (20 marks)