



**JARAMOGI OGINGA ODINGA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY  
SCHOOL OF AGRICULTURE AND FOOD SCIENCES**

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**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF  
AGRICULTURAL EXTENSION AND EDUCATION AND BACHELOR OF SCIENCE  
IN FOOD SECURITY  
4<sup>th</sup> YEAR 2<sup>nd</sup> SEMESTER 2024/2025 ACADEMIC YEAR  
SIAYA CAMPUS**

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**COURSE CODE: AEB 3402/ AAB 2302**

**COURSE TITLE: Extension Education Evaluation/ Program Planning and Evaluation**

**DATE:**

**DURATION:**

**TIME:**

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**Instructions:**

- 1. Answer Question ONE (COMPULSORY) and ANY other 2 questions**
- 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.**

1. Explain the logical framework approach in program planning. How does it help in the successful implementation of an agricultural extension program? (15marks).  
  
(b) Using the logical framework, develop a simple program plan for introducing sustainable farming practices to a group of smallholder farmers. (15marks)
2. Describe the different perspectives in program planning (e.g., top-down, bottom-up, and participatory) and explain how each could influence the planning of an agricultural extension program. (20marks)
3. You are designing an agricultural extension program for a rural community. How would you incorporate a participatory approach in program planning to ensure that the program meets the specific needs of the farmers? (20marks)
4. (i) You are conducting a needs assessment for an agricultural extension program in a remote village. What key information would you gather to ensure the program meets the specific needs of the farmers? How would you analyze this data to design a targeted program? (10marks)  
  
(ii) You are tasked with conducting a participatory evaluation of a new extension service in an agricultural community. How would you involve local farmers in the evaluation process? What qualitative and quantitative methods would you use to gather feedback from the community? (10marks)
5. After delivering an extension program on sustainable agricultural practices to a group of farmers, you want to evaluate its impact. What methods would you use to measure changes in farming practices? Describe how you would collect data before and after the program. (20marks)