



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

**FIRST YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE OF  
DOCTOR OF PHILOSOPHY IN AGRICULTURAL EXTENSION  
2024/2025 ACADEMIC YEAR**

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**COURSE CODE: AEE: 6111  
Extension**

**STREAM: PhD. Agricultural**

**COURSE TITLE: Innovations for Agricultural Development**

**VENUE:**

**DATE:**

**EXAM SESSION:**

**TIME:**

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**Instructions:**

- 1. Answer Any THREE Questions**
- 2. Candidates are advised not to write on the question paper.**
- 3. Answers to Questions must be written in the Answer Booklets**
- 4. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**SECTION A: [20 Marks]**

1. Leveraging Public-Private Partnerships (PPPs) is a key consideration for designing agricultural policy interventions that enhance innovation adoption among smallholder farmers. Discuss. [20 marks]
2. Women and youth are increasingly playing crucial role in driving agricultural innovations in smallholder farming systems. Using relevant examples, examine the major challenges that limit women and youth participation in agricultural innovation and propose policy interventions to enhance their inclusion. [20 marks]
3. With examples discuss the relevance of value addition and agribusiness development innovations in agricultural development. Cite any relevant case study from Africa. [20 marks]
4. Innovation in agriculture is driven by multiple triggers that create the need for new technologies, practices, and systems to improve productivity, sustainability and resilience. As an extensionist, how would you facilitate the adoption of innovation triggered by climate change? [20 marks]