



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

**SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**FIRST YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE  
OF MASTER OF SCIENCE IN FOOD SECURITY AND SUSTAINABLE  
AGRICULTURE**

**2018/2019 ACADEMIC YEAR**

**REGULAR**

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<b>COURSE CODE:</b>	<b>AFB 5115</b>
<b>COURSE TITLE:</b>	<b>Food Systems And Resources</b>
<b>EXAM VENUE:</b>	<b>STREAM: MSc. Food Security and Sustainable Agriculture</b>
<b>DATE: 17/02/2021</b>	<b>EXAM SESSION: 9.00-12.00 NOON</b>
<b>TIME:</b>	<b>3 HOURS</b>

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**Instructions:**

- 1. Answer all questions**
- 2. Question one and two are compulsory**
- 2. Candidates are advised to write on the text editor provided, or to write on a foolscap, scan and upload alongside the question**
- 3. Candidates must ensure they submit their work by clicking "finish and submit attempt" button at the end.**

## Q1

- a) Describe 2 typical non-formal food systems that have supported food security in your country for centuries. **(2 marks)**
- b) Briefly explain how double burden and hidden hunger are related in food security. **(2 marks)**
- c) Explain how the challenges of double burden and hidden hunger impact on the affluent consumers in the urban households. **(2 marks)**
- d) Identify and explain who are likely to suffer the challenges of double burden and hidden hunger in food insecurity in Africa. **(2 marks)**
- e) Briefly explain why food system transformation is critical in the developed nations such as the USA and England. **(2 marks)**

## Q2

- a) Explain why economic, social, and environmental systems should be linked for a sustainable food systems in Africa. **(5 marks)**
- b) Studies show that it is difficult for rural households to achieve food security solely through agricultural production. Suggest at least five (5) points that rural households should observe and implement to possibly achieve food security at the household level. **(5 marks)**

### **ATTEMPT ONLY TWO (2) QUESTIONS FROM THIS SECTION**

5. (a) In not more than half a page, clearly describe separability hypothesis in agricultural production. **(10 marks)**  
(b) Explain why the hypothesis does not explain the role of gender in sustainable rural food production and processing industry. **(10 marks)**
  
6. (a) Explain the nature and characteristics of typical African food system, and resources that have sustained many families who do not have access to conventional food markets in the rural areas. **(10 marks)**  
(b) How can such food systems and resources be streamlined for sustainability? **(10 marks)**
  
7. (a) Agricultural and food industries have undergone considerable transformation in the name of Trade Liberalization. Describe the challenges and the benefits the industrialization has brought in the diet of many consumers. **(10 marks)**  
(b) Suggest how the food industrialization system can be influenced to retain the local values and food security without compromising their food value chain. **(10 marks)**

