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

**SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**FOURTH YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE FOOD SECURITY**

**2016/2017 ACADEMIC YEAR**

**REGULAR**

**COURSE CODE: SFB 3411**

**COURSE TITLE: Mechanization and World Food Situation**

**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 from this Section.**

1. Define the following terms:
   1. Agricultural Mechanization **(2 Marks)**
   2. Policy **(2Marks)**
   3. Strategy **(2 Marks)**
2. Explain the purpose of formulating a strategy for agricultural mechanization **(6 Marks)**
3. Explain important aspects of governance of global food system **(6 Marks)**
4. Describe how climate change would impact on the food system **(8 Marks)**
5. Describe factors that have reduced the success efforts to promote agricultural mechanizations  **(4 Marks)**

**SECTION B [40 MARKS]**

**Answer ANY TWO questions from this Section.**

1. Explain:
2. The effects of low level Agricultural Mechanizations on agricultural development

**(12 Marks)**

1. How increase in global population will affect the food system **(8 Marks)**
2. Discuss the determinants of low demand of Agricultural Mechanization  **(20 Marks)**
3. Discuss drivers that might affect the food system, and the uncertainties associated with them **(20 Marks)**
4. Discuss different levels of Agricultural Mechanization **(20 Marks)**