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

2019/2020 ACADEMIC YEAR

REGULAR

COURSE CODE: AFB 5115

COURSE TITLE: FOOD SYSTEMS AND RESOURCES

EXAM VENUE: **STREAM: MSc. Food Security and Sustainable Agriculture**

DATE: 13/09/19   **EXAM SESSION: 9.00 – 12.00NOON**

TIME: 3 HOURS

Instructions:

1. **Answer THREE questions.**

2. **Question ONE is Compulsory**

3. **Candidates are advised NOT to write on the question paper.**

4. **Candidates must hand in their answer booklets to the invigilator while in the examination room.**

1.

    a) Briefly explain what a food system is by giving a clear example of how each part of the system works to support food value chain **(3 marks)**

    b) How has consumer behavior impacted on the food system and resources in the urban and rural areas? **(3 marks)**

    c) Explain how the trade liberalization has revolutionized the food system to set new standards for consumer's behavior in your country. **(3 marks)**

    d) In one of the key class reading assignment, FAO and WHO in 2016 co-hosted a symposium on sustainable food system for health. Briefly outline and explain the five (5) main strategic regulating outcomes that are currently gaining ground in multiple countries and being advocated for all countries to emulate. **(5marks)**

    e) How has the following sectors contributed to the dysfunctional food system? Discuss by outlining the key points in each sector. **(6marks)**
        i) Water system,
        ii) Health sector,
        iii) Women in the labor market
        iv) Family decision making
        v) The environmental role
        vi) Information technology in the market place

2. Describe the separability hypothesis in relation to agricultural and food production. Explain its implication in agriculture as a source of food for households and agriculture as a source of income for food and non-food expenses (pathway 1 and 2 in the TANDI model).

                                                           (20 marks)

3. Suggest and describe ten (10) key determinants of insects that make them potential for farming. You must explain clearly how each determinant is considered in identifying insects for rearing or farming. **(20 marks)**

4. We noted during class discussions that there are several plants and animals that are eaten in one community (region) while in another community the natives consider them non consumables. With not less than 10 points outline the challenges and briefly explain how they can be overcome in your part of region to increase the food diversity. **(20 marks)**