



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 5113

COURSE TITLE: Agro biodiversity Management

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

DATE: 12/09/19 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) Agrobiodiversity is central to overall biodiversity. Explain. **(4 Marks)**
b) What are the distinctive features of agrobiodiversity, compared to other components of biodiversity.: **(4 Mark)**
c) How can a large amount of biological diversity protect an ecosystem from environmental damage? **(4 marks)**
d) Highlight reasons for the decline in agrobiodiversity. **(4 Marks)**

e) Briefly explain Management Measures of Biodiversity. **(4 Marks)**
2. Make a critical analysis of the role of agro biodiversity . **(20 Marks)**
3. What actions can be taken to prevent loss of agro biodiversity? **(20 Marks)**
4. A healthy biodiversity provides a number of natural services for everyone. Discuss. **(20 Marks)**
5. The ecosystem services are divided into four categories. Supporting services; provisioning services; Regulating services and Cultural services. Discuss the four categories **(20 Marks)**