



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2023/2024 ACADEMIC YEAR  
SECOND YEAR SECOND SEMESTER**

**SCHOOL OF NATURAL RESOURCE,  
ENVIRONMENTAL STUDIES AND  
AGRICULTURE**

**BACHELOR OF SCIENCE IN ENVIRONMENTAL  
PLANNING, MANAGEMENT AND POLICY**

**COURSE CODE: EPM 1211-1**

**COURSE TITLE: SUSTAINABLE FOOD  
PRODUCTION AND ENVIRONMENTAL  
SYSTEMS**

**DATE: 14/5/2024**

**TIME: 1430-1630 HRS**

---

---

## **INSTRUCTIONS TO CANDIDATES**

Section A is compulsory

Answer anyone and any THREE questions in section B

**This paper consists of 2 printed pages. Please turn over**

## **SECTION A: (20 MARKS)**

### **Section A (20 marks)**

1. Describe the trends and drivers of Agricultural Development (4 marks)
2. explain how climate change influences food system vulnerability (4marks)
3. Highlight how to achieve food security through adaptation to climate change (4 marks)
4. Explain the Integration of soil-crop-water management systems (4 marks)
5. Discuss how to manage water use in Agriculture (4 marks)

### **Section B (30 marks)**

6. Analyze impacts of climate change on livestock production systems in the ASALs of Kenya (10 marks)
7. Discuss climate change impacts on crop production in Narok County and propose mitigation measures (10 marks)
8. Discuss practices and technologies for mixed farming systems in Kenya (10 marks)
9. Critically analyze the impact of climate change on marine fisheries resources in Africa (10 marks)

//END//