



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**

**FOURTH YEAR EXAMINATION FOR THE AWARD OF THE DEGREE**  
**OF BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND**  
**EDUCATION**

**FIRST SEMESTER 2022/2023**  
**(SEPTEMBER - DECEMBER, 2022)**

**AGED 413: AGRICULTURAL INFORMATION MANAGEMENT SYSTEMS**

**STREAM: Y4 S1**

**TIME: 2 HOURS**

**DAY: THURSDAY, 3:00 P.M – 5:00 P.M**

**DATE: 22/12/2022**

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***INSTRUCTIONS:***

- 1. Do not write anything on this question paper.***
- 2. Answer Question ALL Questions in section A (Compulsory) and any other TWO Questions in section B.***

1 Explain the following concepts of Agricultural Information Management

- a) Agricultural systems
- b) Information Management
- c) Agricultural Information Management (3marks)

2 Explain the Importance of agricultural management system (4marks)

3 Discuss types of ICT-related technologies that can be used to enhance the operations and functions (5 marks)

4 Explain the components and activities involved in managing technological information in the agricultural sector (8marks)

5 What are four Characteristics of good Information (4 marks)

6 There are various types of management information systems. Explain the systems (5marks)

7 The main purpose of management information systems is to provide management information to decision makers at various levels in the organization. Specifically, in an agricultural extension organization. Explain how it is done (3 marks)

### **SECTION B**

7 What are the opportunities and challenges to use ICT technology for managing agricultural?

Extension programs in Africa (20 marks)

9 Discuss the geographic information system Operations and Functions

(20marks)

10 Discuss the major groups of activities that make up Information management. (20marks)

11 a. Explain the ways that an extension organization uses information from a decision-making information system. (4 marks)

b Discuss the steps to follow when designing a MIS for a national agricultural extension system. (16 marks)