

LAIKIPIA



UNIVERSITY

## UNIVERSITY EXAMINATIONS

**1<sup>ST</sup> SEMESTER 2022/2023 ACADEMIC YEAR**

### **FOURTH YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION**

**AGED 411: AGRICULTURAL INFORMATION MANAGEMENT**

***STREAM: R***

***TIME: 2 HRS***

***DAY: WEDNESDAY (11.30-13.30PM) DATE: 14/12/22***

**THIS QUESTION PAPER CONSISTS OF THREE (3 PAGES)**

**PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.**



**INSTRUCTIONS:** Answer questions **ONE** and any other **TWO** questions

**QUESTION ONE (30 MARKS)**

- a. Explain SIX objectives of agricultural information management (6 marks)
- b. Discuss the conditions necessary for an effective information management chain (6 marks)
- c. Identify the main avenues for accessing of Agricultural Information in Kenya (6 marks)
- d. Critically discuss the importance of sharing Agricultural Information (6 marks)
- e. Explain the application of agricultural information for research and development (6 marks)

**QUESTION TWO (20 MARKS)**

- a. Critique the role of Farmer Field Schools in creation and dissemination of agricultural information (6 marks)
- b. Describe eight components of a robust database management platform for Agriculture information management (8 marks)
- c. Explain how the 'expert system' can effectively be used in generating and passing Agricultural Information (6 marks)

**QUESTION THREE (20 MARKS)**

- a. With the aid of a diagram, describe the eight components of a Geographical Information System (GIS) (8 marks)
- b. Describe how ICT and mobile platforms can be used for disseminating agricultural information (6 marks)
- c. Describe the application of remote sensing in agricultural information management (6 marks)

**QUESTION FOUR (20 MARKS)**

- a. Discuss six challenges of relying on ICT in dissemination of Agricultural Information (6 marks)

- b. Discuss how access and utilization of agricultural information can be an engine for Agricultural Development (8 marks)
- c. Critique six role of African scientists in their contribution to global repository of Agricultural Information (6 marks)

**QUESTION FIVE (20 MARKS)**

- a. Describe eight resources of information available on Agricultural Information Management System portal (AIMS ) (8 marks)
- b. With reference to a specific rural community in Kenya, discuss the most appropriate methods for passing agricultural information (6 marks)
- c. Describe the two types of models for representing Geographic Information System (GIS) data (6 marks)

