

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2025/2026 ACADEMIC YEAR

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

AGED 411: AGRICULTURAL INFORMATION MANAGEMENT

STREAM: (AGED & EXT.)

TIME: 2 HRS

DAY: FRIDAY (8.30-10.30AM)

DATE: 6/2/2026

THIS QUESTION PAPER CONSISTS OF THREE (3 PAGES)

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INSTRUCTIONS:

Answer Question **One** and any **other Two** questions

QUESTION ONE

- a) Explain five ways in which Information Communication Management (ICM) can contribute to food security in Kenya. **(5 marks)**
- b) Outline four dimensions of measuring the quality of agricultural information. **(8 marks)**
- c) Explain six functions of an information management system. **(6 marks)**
- d) Outline two differences between data and information. **(4 marks)**
- e) Critic the fundamental processes of knowledge management. **(7 marks)**

QUESTION TWO

- a) You have been appointed the CEO of an agricultural organization whose information management system was on the verge of collapse. As a CEO, discuss five strategies you would use to revitalize the agricultural information management system. **(10 marks)**
- b) Examine six functions of a Geographical Information System (GIS). **(10 marks)**

QUESTION THREE

- a) Evaluate five factors that have made it possible to deploy GIS in the management of agricultural information in Kenya. **(10 marks)**
- b) Using relevant illustrations, discuss five principles of an effective agricultural information management system. **(10 marks)**

QUESTION FOUR

- a) Using relevant examples, discuss the process of managing agricultural information. **(10 marks)**
- b) Evaluate five contexts against which ICT has transformed agriculture in developed countries. **(10 marks)**

QUESTION FIVE

- a) Assess five basic components of an effective agricultural information management system. **(10 marks)**
- b) Using relevant examples, evaluate five characteristics of good quality agricultural information. **(10 marks)**