



**COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES**  
**AGM1101: INFORMATION AND COMMUNICATION TECHNOLOGY IN**  
**AGRICULTURE**

**END OF FIRST SEMESTER EXAMINATION**

**NOVEMBER 2025**

**LECTURER: MS. B. BOLO**

**DURATION: 3 HOURS**

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**INSTRUCTIONS**

Answer all questions in Section A and any **three** from Section B  
Section A carries **40 marks** and each question in Section B carries  
**20 marks.**

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**SECTION A: [COMPULSARY]**

**Section A: [40 MARKS]**

**Question 1**

- a. Define ICT in agriculture. **(2 marks)**
- b. List three types of digital technologies used in agricultural development. **(3 marks)**
- c. Explain the roles of agricultural databases in farm management. **(3 marks)**
- d. Describe one way mobile apps assist agricultural extension services. **(5 marks)**

- e. Mention two benefits of digital communication tools for farmer networks. **(4 marks)**
- f. List two e-agriculture platforms and their primary function. **(6 marks)**
- g. Explain one application of AI, IoT or machine learning in agriculture. **(9 marks)**
- h. Identify challenges related to big data usage in farming. **(8 marks)**

**SECTION B [ANSWER ANY THREE QUESTIONS] [60 MARKS]**

**Question 2**

Discuss the role of digital communication tools in enhancing knowledge sharing among smallholder farmers. **(20 marks)**

**Question 3**

Evaluate the impact of AI, machine learning, and IoT technologies on modern agriculture. **(20 marks)**

**Question 4**

Analyze how e-agriculture platforms and mobile technologies improve market access for smallholder farmers. **(20 marks)**

**Question 5**

What is GIS, and how is it applied in precision farming? **(20 marks)**

**END OF QUESTION PAPER!!!**