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

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**.

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!!!