

2025 END OF SEMESTER EXAM – AGRICULTURAL SCIENCE 2

PAPER 2

[60 MARKS] 1 HOUR

Answer three questions from this section.

1. a. State **five** challenges associated with the use of emerging technology in farming (5marks)
- b. Identify **five** sources of capital for the farmer in vegetable farming (5marks)
- c. Explain **five** importance of irrigation systems in crop production (10marks)
2. a. State **five** ways land preparation helps to increase crop production (5marks)
- b. Describe the processes involved in tissue culture (10marks)
- c. State **five** importance why Judith needs to know the climatic conditions prevailing in her area of vegetable production before choosing an appropriate irrigation site. (5marks)
3. a. Mention any **five** pests of crops. (5marks)
- b. Define the following terms as used in vegetable crop production
- I. Staking (2marks)
- II. Pruning (2marks)
- III. Mulching (2marks)
- IV. Pricking-out (2marks)
- V. Hardening off (2marks)
- c. Tabulate **five** differences between drip and sprinkler irrigation (5marks)
4. a. State **five** importance of hydroponics as an emerging technology in vegetable crop and ornamental plants production (5marks)
- b. Discuss **five** importance of ornamental plants (10marks)
- c. Give **three** differences between the post-harvest operations in vegetable crops and ornamental plants. (3marks)
- d. How does sources of water influence the choice of choosing a site for crop production (2marks)

END OF ESSAY TEST