

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL
ADVANCED CERTIFICATE OF SECONDARY EDUCATION
EXAMINATION**

134/2

AGRICULTURE 2

(For Both School and Private Candidates)

Time: 3 Hours

Year: 2007

Instructions

1. This paper consists of sections **ten (10)** questions in sections A and B.
2. Answer **five (5)** questions choosing at least **two (2)** questions from each section.
3. Each question carries **twenty (20)** marks.
4. Cellular phones are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).

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SECTION A

CROP SCIENCE AND PRODUCTION

Answer at **least two** questions from this section

1. Briefly explain the concept of mutation breeding and its application in crop improvement.
2. State five benefits of progeny testing in crop breeding.
3. Explain the following as used in weed science:
 - (a) Crop rotation
 - (b) Mulching
 - (c) Notorious weed
 - (d) Selective herbicide
4. Briefly explain five environmental factors that affect the effectiveness of herbicides.
5. Describe five symptoms of a viral infection in a plant, and explain two ways a viral infection can spread.

SECTION B.

LIVESTOCK SCIENCE AND PRODUCTION

Answer at **least two** questions from this section.

6. Differentiate between carrying capacity and stocking density.
7. Briefly explain the role of the following nutrients in an animal's diet:

(a) Vitamin A

(b) Calcium

(c) Phosphorus

(d) Protein

8. Discuss three common diseases of poultry, stating their causative agents and symptoms.

9. Explain the importance of a good water supply for livestock production and state three factors that affect the water intake of an animal.

10. State five advantages and five disadvantages of using artificial insemination in livestock breeding.