

**THE UNITED REPUBLIC OF TANZANIA**  
**NATIONAL EXAMINATIONS COUNCIL OF TANZANIA**  
**ADVANCED CERTIFICATE OF SECONDARY EDUCATION**  
**EXAMINATION**  
**134/2**  
**AGRICULTURE 2**

(For Both School and Private candidates)

**Time: 3 Hours**

**Year: 2021**

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**Instructions**

1. This paper consists of sections **A** and **B** with a total of **ten (10)** questions.
2. Answer **all** questions in section **A**, and **two (2)** questions from section **B**.
3. Section **A** carries **seventy (70)** marks and section **B** carries **thirty (30)** marks
4. Cellular phones and any unauthorized materials are **not** allowed in the examination room.
5. Non-programmable calculators may be used.
6. Write your **Examination Number** on every page of your answer booklet (s)

## **SECTION A (70 marks)**

Answer **all** questions in this section

1. Briefly describe five adaptive features of the pest (grasshopper) in relation to its mode of feeding.
2. (a) Explain how to identify the disease in the field.  
(b) Briefly explain how the disease is spread in potatoes.  
(c) Account on seven control measures of the disease in the field.
3. (a) Propose five cultural practices for controlling bacterial wilt diseases in the tropics.  
(b) Examine five environmental conditions necessary for growth and development of pathogenic fungi in plants.
4. Analyse five good cultural practices that can be used to control weeds.
5. Analyse four breeding methods to be used in self-pollinated crop species for successful crop improvement.
6. Briefly explain five limitations experienced by farmers when practising organic farming.
7. Describe the structure of five secondary reproductive organs in the cow and give the function of each.

## **SECTION B (30 Marks)**

Answer **two (2)** questions in this section

8. (a) Give six significance of water as a feed component in animal body.  
(b) Examine four factors that govern the amount of water intake in animals.
9. Explain procedures to be followed by livestock keepers in establishing their own pastures.
10. (a) Account for six management practices that can be taken to control parasites (roundworms) from infecting the animal.  
(b) Give eight points on how to identify an animal with high infestation of round worms.