

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

034/2

**AGRICULTURAL SCIENCE 2
(PRACTICAL)
(For School Candidates Only)**

Time: 2:15 Hours

Wednesday, 20th October 2010 a.m.

Instructions

1. This paper consists of **three (3)** questions.
2. Answer **two (2)** questions.
3. Each question carries 25 marks.
4. Cellular phones and calculators are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).

This paper consists of 3 printed pages.

1. You are provided with specimens T₁, T₂, T₃, T₄, and T₅. Observe each of the specimens carefully and then answer the questions that follow.
 - (a) Name each of the specimens T₁, T₂, T₃, T₄, and T₅. (5 marks)
 - (b) State the botanical name of each specimen. (5 marks)
 - (c) To what class of crops does each of the specimens belong? (5 marks)
 - (d) State the life span of each of specimens T₁, T₂, T₃, T₄ and T₅. (5 marks)
 - (e) State the method of propagation for each specimen. (5 marks)
2. You are provided with specimens S₁, S₂, S₃, S₄ and S₅. Observe each specimen carefully and then answer the questions that follow.
 - (a)
 - (i) Name each of the specimen S₁, S₂ and S₃. (3 marks)
 - (ii) State two (2) harmful effects of each of the specimens S₂ and S₃ to farm animals. (4 marks)
 - (iii) State three (3) control measures for each of the specimens S₂ and S₃. (6 marks)
 - (b) Refer to the specimen S₁.
 - (i) Outline three (3) diseases which are transmitted from one animal to another by specimen S₁. (3 marks)
 - (ii) How would you control the diseases transmitted by specimen S₁? (4 marks)
 - (c)
 - (i) Name specimen S₄. (1 mark)
 - (ii) How is specimen S₄ adapted to the function it performs? (2 marks)
 - (d)
 - (i) Identify specimen S₅. (1 mark)
 - (ii) Explain the relationship between specimens S₄ and S₅. (1 mark)
3. You are provided with specimens R₁, R₂, R₃, R₄, R₅, R₆, R₇ and R₈. Observe them carefully and then answer the questions that follow.
 - (a) Identify each of the specimens R₁, R₂, R₃, R₄, R₅, R₆, R₇ and R₈. (8 marks)
 - (b) State the function (s) of each specimen. (8 marks)

- (c) Name two (2) other types of specimen R_1 and state their functions. (4 marks)
- (d) List any three (3) parts of specimen R_4 . (3 marks)
- (e) Explain the day to day care and maintenance of specimens R_6 , R_7 and R_8 . (1 mark)
- (f) From which type of a tractor engine was the specimen R_4 taken? (1 mark)