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.

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1. You are provided with specimens T_1, T_2, T_3, T_4, and T_5. Observe each of the specimens carefully and then answer the questions that follow.

   (a) Name each of the specimens T_1, T_2, T_3, T_4, and T_5. **(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 T_1, T_2, T_3, T_4 and T_5. **(5 marks)**

   (e) State the method of propagation for each specimen. **(5 marks)**

2. You are provided with specimens S_1, S_2, S_3, S_4 and S_5. Observe each specimen carefully and then answer the questions that follow.

   (a) (i) Name each of the specimen S_1, S_2 and S_3. **(3 marks)**

   (ii) State two (2) harmful effects of each of the specimens S_2 and S_3 to farm animals. **(4 marks)**

   (iii) State three (3) control measures for each of the specimens S_2 and S_3. **(6 marks)**

   (b) Refer to the specimen S_1.

   (i) Outline three (3) diseases which are transmitted from one animal to another by specimen S_1. **(3 marks)**

   (ii) How would you control the diseases transmitted by specimen S_1? **(4 marks)**

   (c) (i) Name specimen S_4. **(1 mark)**

   (ii) How is specimen S_4 adapted to the function it performs? **(2 marks)**

   (d) (i) Identify specimen S_5. **(1 mark)**

   (ii) Explain the relationship between specimens S_4 and S_5. **(1 mark)**

3. You are provided with specimens R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8. Observe them carefully and then answer the questions that follow.

   (a) Identify each of the specimens R_1, R_2, R_3, R_4, R_5, R_6, R_7 and R_8. **(8 marks)**

   (b) State the function (s) of each specimen. **(8 marks)**

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(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)**