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

Monday, October 19th 2009 a.m.

Instructions

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

This paper consists of 3 printed pages.

- You are provided with the specimens D₁, D₂, D₃, D₄, D₅, D₆ and D₇. Study them carefully and then answer the question that follow.
 - (a) (i) Identify each of the specimens D₁, D₂, D₃, D₄ and D₅ (2.5 marks)
 - (ii) Classify the specimens D₁, D₂, D₃, D₄ and D₅ into their respective classes basing on botanical characteristics and their uses.

 (2.5 marks)
 - (iii) Name one main pest attacking each of the specimens D₁, D₂, D₃,

 (2.5 marks)
 - (iv) Give one (1) control measure for each of the pests named in (a)
 (2.5 marks)
 - (v) State the mode of propagation for each of the specimens D₁, D₂, D₃ and D₅. (4 marks)
 - (b) Refer to specimen D₆ and D₇.
 - (i) Identify them by their scientific and common names. (2 marks)
 - (ii) Give the general name for specimens D₆ and D₇. (2 marks)
 - (iii) State four (4) harmful effects of specimens D₆ and D₇ to crop plants. (4 marks)
 - (iv) Explain one method you would take to control each of the specimens D₆ and D₇ in a field of coffee. (3 marks)
- You are provided with specimens E₁, E₂, E₃, E₄, E₅ and E₆. Observe them carefully and then answer the questions that follow.
 - (i) Identify each of the specimens E₁, E₂ and E₆. (3 marks)
 - (ii) Give classes of animals which possess specimens E₁ and E₂ in their alimentary canal.(2 marks)
 - (iii) State the function of each of specimens E₁ and E₂ in animals.

 (2 marks)
 - (iv) How is the specimen E₁ adapted to the function it performs? (2 marks)

- Refer to specimen E3, E4, E5 and E6. (b)
 - Identify each of the specimens E3, E4 and E5. (i) (3 marks)
 - What is the function of each of the specimen E5 and E6 in livestock (ii) management? (3 marks)
 - Name the diseases which are cured by using each of the specimens (iii) E₃ and E₄ (2 marks)
 - What is the causative agent of a disease cured by E₃? (iv) (2 marks)
 - (v) List other three (3) diseases which are transmitted by the same vector as the one which is caused by the agent named in (b) (iv) above. (3 marks)
 - Explain three (3) advantages of the practice done using specimen (vi) E₆ in dairy cattle management. (3 marks)
- 3. You are provided with the specimen F1, F2, F3, F4, F5, F6 and F7. Observe them carefully and then answer the questions that follow.
 - (a) Identify each of the specimens F1, F2, F3, F4 and F5. (i) (5 marks)
 - Which specimens among the specimens F1, F2, F3, F4 and F5 (ii) are used in surveying? (2 marks)
 - Which specimens are used in wood work? (iii) (2 marks)
 - Explain briefly the specific function(s) of each of the specimens (iv) F1, F2, F3, F4 and F5. (5 marks)
 - (b) Refer to specimens F₆ and F₇.
 - (i) Identify each specimen. (2 marks)
 - Which specimen contains more plant nutrients? (ii) (2 marks)
 - State three (3) properties of specimen F₇. (iii) (3 marks)
 - Which specimen is the best for crop production? Give three (3) (iv) reasons. (4 marks)