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

Tuesday, 18th October 2011 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).



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- 1. You are provided with specimens A, B, C, D, E, F and G. Observe each of the specimens carefully and then answer the questions that follow.
 - (a) (i) Identify each of the specimens A, B, C, E and F by their common and scientific names. (10 marks)
 - (ii) Name one cash crop affected by each of specimens A and B.

 (2 marks)
 - (iii) State one harmful effect of each of specimens A and B to plants they infect. (2 marks)
 - (b) Propose three (3) cultural methods that can be used to control specimen A. (3 marks)
 - (c) (i) Examine the importance of specimens C and E. (1 mark)
 - (ii) Assess the competitive effects of specimen F on crops. (2 marks)
 - (d) (i) Identify each of the specimens D and G. (2 marks)
 - (ii) Briefly, explain how would you control the condition in G?
 (3 marks)
- 2. You are provided with specimens H, I, J and K. Study them carefully and then answer the questions that follow.
 - (a) (i) Identify each of the specimens H, I, J and K. (4 marks)
 - (ii) State the classes of livestock feeds for each of the specimens H, I, J and K. (4 marks)
 - (iii) Give two (2) properties of each class of feed stuff identified in (a) (ii) above. (4 marks)
 - (b) State the main nutrient present in each of specimens H, I, J and K and their functions. (4 marks)
 - (ii) Comment on the digestibility of each of specimens H and I. Give reasons for your answer. (2 marks)
 - (iii) Giving reasons, suggest the types of animals which are suitable to be fed with each of specimens H and I. (2 marks)
 - (iv) Name four (4) other ingredients which should be supplemented to specimen I to make it a balanced feed. (2 marks)

Briefly, explain three (3) factors that a farmer should consider when (c) selecting feeds for farm animals.

(3 marks)

- You are provided with specimens M, N, O, P, Q, R, S and T. Observe each of the 3. specimens carefully and then answer the questions that follow.
 - Identify each of the specimens M, N, O, P, Q, R, S and T. (i) (a) (8 marks)
 - Explain briefly the use of each of the specimens M, N, O, P and Q. (ii) (5 marks)
 - (3 marks) Outline six (6) properties of specimen S. (b) (i)
 - Give reasons as to why specimen S should be applied ahead of (ii) (2 marks) sowing or planting time.
 - Giving reasons, briefly explain the suitable methods of application (iii) of specimen R to the soil for widely spaced crops. (2 marks)
 - Briefly, explain three (3) advantages of using specimen T as (i) (c) (3 marks) compared to specimens R and S.
 - Suggest the reasons for specimen T having low nutrient content. (ii) (2 marks)