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 **Thursday, 19th November 2015 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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GOT-MOE 2015

1. You are provided with specimens A, B, C, D, E, F, G, H, I and J. Observe them carefully and answer the following questions:

   (a) (i) Identify each of specimens A, B, C and D. **(2 marks)**

   (ii) State how are specimens A and B used? **(1 mark)**

   (iii) Explain briefly the mechanism of functioning of specimen C in a four stroke engine. **(4 marks)**

   (iv) How specimen D assists in forming a combustion chamber in the engine? **(2 marks)**

   (b) (i) Identify each of specimens E and F. **(1 mark)**

   (ii) What is the relationship between specimens E and F? **(2 marks)**

   (iii) Outline four considerations to be observed when using specimen E. **(2 marks)**

   (c) (i) State two qualities of how specimen G should be. **(1 mark)**

   (ii) Briefly explain how specimen G performs its function. **(2 marks)**

   (d) (i) Identify each of specimens H, I and J. **(1.5 marks)**

   (ii) Describe briefly how specimen H works. **(2 marks)**

   (iii) State five conditions in which the use of specimen I is more appropriate than specimen J. **(2.5 marks)**

   (iv) Why is specimen J not preferred for use in some crops especially in the dry season? **(2 marks)**

2. You are provided with specimens K, L, M, N, O, P, Q and R. Observe them carefully and answer the following questions:

   (a) (i) State two damage symptoms for specimen K. **(1 mark)**

   (ii) Briefly explain three outcome of feeding behaviour for specimen K. **(3 marks)**

   (iii) Suggest two control measures for the pest in specimen L. **(2 marks)**

   (b) (i) Name the disease affecting plant in specimen M. **(1 mark)**

   (ii) State four effects caused by the pathogen in specimen M. **(2 marks)**

(iii) Elaborate the physiological effect caused by the presence of galls on the roots of specimen M. **(2 marks)**

(iv) Propose six ways of preventing fungal infection in specimen N that is to be stored after harvest. **(3 marks)**

(c) (i) State four damage symptoms that specimen O cause to the host plant. **(2 marks)**

(ii) Examine three management measures for specimen O. **(3 marks)**

(iii) Why is specimen P difficult to control? **(1 mark)**

(d) (i) Explain briefly what you should do when planting specimen Q in an area known to have banana weevils. **(1 mark)**

(ii) What are the two preventive measures to take against nematodes when planting specimen Q? **(2 marks)**

(iii) Briefly describe the process of propagating specimen R. **(2 marks)**

3. You are provided with specimens S, T, U, V, W, X, Y and Z. Observe them carefully and answer the following questions:

(a) (i) Describe briefly how specimen S is used for its purpose. **(3 marks)**

(ii) Account for three reasons for trimming specimen T. **(3 marks)**

(b) (i) Describe briefly the method of castrating a bull calf using specimen U. **(3 marks)**

(ii) Explain briefly the management practice done by using specimen V in poultry and state two importance of the practice. **(3 marks)**

(c) (i) Account for the structural adaptation and the effect of specimen W in the animal body. **(3 marks)**

(ii) Outline three importance of specimen X to the newly born animal. **(3 marks)**

(d) (i) What is the importance of specimen Y to farm animals? **(2 marks)**

(ii) Describe the process of making specimen Z. **(3 marks)**

(iii) How is specimen Z important in animal production? **(2 marks)**