

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

134/3

AGRICULTURE 3

(For Both School and Private Candidates)

Time: 3 Hours

Year: 2012

Instructions

1. This paper consists of sections **three (3)** questions.
2. Answer **two (2)** questions.
3. Question one (1) carries **twenty (20)** marks and questions **two (2)** and **three (3)** carries **fifteen (15)** marks each.
4. Non-programable calculators may be used.
5. Cellular phones are **not** allowed in the examination room.
6. Write your **Examination Number** on every page of your answer booklet(s).

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1. You are provided with specimens: K1, K2, K3, L1, L2, L3, L4, L5, M1, M2, M3, M4, and M5.
 - (a) (i) Identify specimens K1, K2, and K3
 - (ii) Give two types of specimen K1 and their roles in tractor functioning
 - (iii) State three warning signs that show specimen K1 is worn out
 - (iv) Identify the unit in which specimen K3 belongs and explain its mode of operation
 - (b) (i) Identify specimens L3, L4, and L5
 - (ii) State the uses of specimens L1, L2, and L5
 - (iii) Distinguish between the functions of specimens L3 and L4
 - (c) (i) Identify specimens M1, M2, M3, and M4
 - (ii) Show their arrangement and state the fitting used to connect specimen M5

2. You are provided with specimens: N1, N2, O1, O2, and O3.
 - (a) (i) Identify specimens N1 and N2
 - (ii) List four morphological features of specimen N2
 - (iii) State the use of specimens N1 and N2
 - (iv) Indicate the growth stage when specimen N2 should be applied
 - (b) (i) State the botanical name of specimen O1
 - (ii) Identify the disease in specimen O1 and give its causal organism
 - (iii) Name the disease on specimen O2
 - (iv) Give two ways in which the disease on specimen O2 is transmitted
 - (v) Give the scientific name of specimen O3
 - (vi) Mention three crops that are commonly infested by specimen O3
 - (vii) Suggest whether specimen O3 is a field or storage pest and justify with two reasons

3. You are provided with specimens: P1, P2, P3, and P4.
 - (a) (i) Identify specimens P1, P2, P3, and P4 using scientific names
 - (ii) State how specimens P1 and P2 may be best preserved
 - (iii) Give three reasons for conserving specimens P1 and P2
 - (b) (i) Explain briefly how specimen P4 infests livestock
 - (ii) Mention two animals commonly attacked by specimen P4
 - (iii) Explain the relationship between specimens P3 and P4
 - (iv) Outline three measures for controlling specimen P4