

**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: 2015

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: A1, A2, A3, B1, B2, B3, B4, B5, C1, C2, C3, C4, and C5.
 - (a)
 - (i) Identify specimens A1, A2, and A3
 - (ii) State two main types of specimen A1 and their functions
 - (iii) Outline three operational faults that would indicate specimen A1 is damaged
 - (iv) Mention the unit of a tractor transmission system in which specimen A3 is used and explain its working principle
 - (b)
 - (i) Identify specimens B3, B4, and B5
 - (ii) Describe the use of specimens B1, B2, and B5
 - (iii) Differentiate between the functions of specimen B3 and B4
 - (c)
 - (i) Identify specimens C1, C2, C3, and C4
 - (ii) Show their correct arrangement and name the fitting used when joining specimen C5
2. You are provided with specimens: D1, D2, E1, E2, and E3.
 - (a)
 - (i) Identify specimens D1 and D2
 - (ii) Outline four unique features of specimen D2
 - (iii) State the use of specimens D1 and D2
 - (iv) Mention the stage of crop growth when specimen D2 is recommended for application
 - (b)
 - (i) Identify specimen E1 by its botanical name
 - (ii) State the disease on specimen E1 and its causative agent
 - (iii) Identify the disease on specimen E2
 - (iv) List two methods of transmission of the disease in specimen E2
 - (v) Give the scientific name of specimen E3
 - (vi) Mention three crops mainly attacked by specimen E3
 - (vii) Suggest whether specimen E3 is a storage or field pest, giving two reasons
3. You are provided with specimens: F1, F2, F3, and F4.
 - (a)
 - (i) Identify specimens F1, F2, F3, and F4 by their scientific names
 - (ii) Describe how specimens F1 and F2 may be preserved effectively
 - (iii) Give three reasons farmers conserve specimens F1 and F2
 - (b)
 - (i) Explain how farm animals can be infested by specimen F4
 - (ii) Mention two livestock species that are common hosts of specimen F4
 - (iii) Explain the biological relationship between specimen F3 and F4
 - (iv) Outline three ways of controlling specimen F4 on livestock