

**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: 2003

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: B1, B2, B3, C1, C2, C3, C4, D1, D2, D3, D4, and D5.
 - (a)
 - (i) Identify specimens B1, B2, and B3
 - (ii) State two main types of specimen B1 and their roles in tractor operation
 - (iii) Outline three signs that indicate specimen B1 is damaged or worn out
 - (iv) Mention the unit of a tractor transmission system in which specimen B3 is found and describe its operating principle
 - (b)
 - (i) Identify specimens C2, C3, and C4
 - (ii) State the uses of specimens C1, C2, and C4
 - (iii) Differentiate between the roles of specimens C3 and C4
 - (c)
 - (i) Identify specimens D1, D2, D3, and D4
 - (ii) Show the correct arrangement and indicate the type of fitting used when joining specimen D5
2. You are provided with specimens: E1, E2, F1, F2, and F3.
 - (a)
 - (i) Identify specimens E1 and E2
 - (ii) Outline four characteristics of specimen E2 that make it suitable for fertilizer application
 - (iii) State the purpose of specimens E1 and E2 in crop production
 - (iv) Specify the growth stage at which specimen E2 is recommended for application
 - (b)
 - (i) Identify specimen F1 by its botanical name
 - (ii) Name the disease affecting specimen F1 and its causative organism
 - (iii) Identify the disease present in specimen F2
 - (iv) List two modes of transmission of the disease in specimen F2
 - (v) Provide the scientific name of specimen F3
 - (vi) Mention three crops commonly infested by F3
 - (vii) Suggest whether F3 is a field or storage pest and justify with two reasons
3. You are provided with specimens: G1, G2, G3, and G4.
 - (a)
 - (i) Identify specimens G1, G2, G3, and G4 using scientific names
 - (ii) State the best preservation method for specimens G1 and G2
 - (iii) Give three reasons why farmers conserve specimens G1 and G2
 - (b)
 - (i) Explain how specimen G4 can infest farm animals
 - (ii) Name two animals that are common hosts for specimen G4
 - (iii) Describe the relationship between specimen G3 and G4
 - (iv) Outline three methods to control specimen G4 on livestock