

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

134/3

AGRICULTURE 3

(For Both School and Private candidates)

Time: 3 Hours

Year: 2019

Instructions

1. This paper consists of **three (3)** questions..
2. Answer **two (2)** questions.
3. Question **one (1)** carries **twenty (20)** marks, question **two (2)** and **three (3)** carry **fifteen (15)** marks each.
4. Non-programmable calculators may be used.
5. Write your **Examination Number** on every page of your answer booklet (s)

1. You are provided with specimens: **E1, E2, E3, F1, F2, F3, F4, F5, G1, G2, G3, G4, and G5.**

(a) (i) Identify each of the specimen **E1, E2, and E3**

(ii) Suggest the two types of specimen **E1** and their functions,

(iii) Outline three indicators that would alert the tractor operator that specimen **E1** is worn out (iv) Give the name of the unit in transmission system in which specimen **E3** belong and describe its operating principle

(b) (i) Identify each of the specimen **F3, F4 and F5**

(ii) Describe the use of specimen **F1, F2 and F5**

(iii) Differentiate the use of specimen **F3 and F4**

(c) (i) Identify specimen **G1, G2, G3 and G4**

(ii) Indicate the arrangement of specimens and name the fitting they are going to use when they want to join specimen **G5.**

2. You are provided with specimens: **H1, H2, I1, I2 and I3.**

(a) (i) Identify specimen **H1 and H2,**

(ii) Outline four characteristics of specimen **H2,**

(iii) Give the use of specimens **H1 and H2,**

(iv) State the stage of crop development in which spacemen **H2** is recommended for application,

(b) (i) Identify specimen **I1** by its botanical name,

(ii) Mention the disease in specimen **I1** and its causative agent,

(iii) Identify the disease in specimen **I2,**

(iv) List two methods in which the disease in specimen **I2** is transmitted,

(v) Write scientific name of specimen **I3,**

(vi) Mention three crops that are the main host of specimen **I3** and

(vii) Suggest whether **I3** is a field or storage pest, and give two reasons for the answer provided.

3. You are provided with specimens: **J1, J2, J3** and **J4**.

- (a) (i) Identify the specimens **J1, J2, J3** and **J4** by their scientific names
- (ii) Explain briefly how best can specimen **J1** and **J2** be preserved
- (iii) Give three reasons why farmers conserve specimens **J1** and **J2**
- (b) (i) Briefly describe how farm animals could be infested by specimen **J4**,
- (ii) Name two farm animals which are common host of specimen **J4**,
- (iii) Briefly explain the relationship between **J3** and **J4**.
- (iv) Outline three ways by which specimen **J4** may be controlled from infesting farm animals