

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

134/1

AGRICULTURE 1

(For Both School and Private Candidates)

Duration: 3 Hours

Year: 2025

Instructions

1. This paper consists of sections **ten (10)** questions
2. Answer **all** questions.
3. Each question carries **ten (10)** marks
4. Cellular phones are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).



Answer **all** questions. Each question Carries **ten (10)** marks.

1. (a) Suggest five ways that should be used to maintain power workshop tools and guarantee their usefulness.
(b) Briefly explain the functions of each of the following parts of a dip:
 - (i) Footbath
 - (ii) The jump
 - (iii) Drainage race
 - (iv) Entrance race
 - (v) Assembly yard
2. (a) Briefly describe five components of a tractor fuel system.
(b) Briefly explain how two different types of air cleaners work so as to ensure proper ignition.
3. (a) Account for the five benefits of a proper irrigation.
(b) Enumerate five ways in which irrigation water is conveyed to the farm.
4. A soil is formed by the interaction of complex processes including the physical and chemical disintegration of parent rocks driven by some factors. Briefly explain four factors which are influential for soil formation.
5. Account for five factors that influence formation of soil structure.
6. Under certain conditions, foliar fertilisation is considered to be a more appropriate method of fertiliser application than soil fertilisation. Briefly explain five superiorities of foliar fertilisation over soil fertilisation.
7. Assess two effects of each of the following soil reaction on its fertility:
 - (a) Very low soil pH
 - (b) Very high soil pH

8. On 30th June 2018, a farmer at Kialile had the following information on his farm: There were 20 herds of cattle each valued Tsh 100,000/=, 30 sheep each valued Tsh 40,000/= and 25 goats each valued Tsh 50,000/=. In the store there were ten bags of animal feeds each worth Tsh 5,000/= and four bags of fertiliser each worth Tsh 40,000/=. He also had a tractor that was five years old and was bought for Tsh 15,000,000/= with an expectation that it would last for 30 years and then be written off at a value of Tsh 1,000,000/=. Write down an Inventory and Valuation for this farmer as on 30th June 2018.

9. The following table shows the yield of potatoes and soya beans in Tanzania and Uganda.

Country	Soya beans (bag/ha)	Potatoes (bag/ha)
Tanzania	4	30
Uganda	15	6

(a) Suppose the total area of land that is available for producing the two crops in each country is 400 hectares and without specialisation half of the total land is used to produce beans and the other half is used to grow potatoes. What will be the total production of beans and potatoes in both countries?

(b) Suppose each country decides to specialise in the production of crop in which it has a comparative advantage. What will be the total production of beans and potatoes in both countries?

10. HIV/AIDS is a pandemic disease that negatively affects agriculture and labour productivity in Tanzania. Explain:

- (a) Five impacts posed by the disease.
- (b) Five measures that the government of Tanzania can take to mitigate the problem.