

THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
ADVANCED CERTIFICATE OF SECONDARY EDUCATION
EXAMINATION
134/1
AGRICULTURE 1

(For Both School and Private candidates)

Time: 3 Hours

Year: 2021

Instructions

1. This paper consists of sections **A** and **B** with a total of **ten (10)** questions.
2. Answer **all** questions in section **A**, and **two (2)** questions from section **B**.
3. Section **A** carries **seventy (70)** marks and section **B** carries **thirty (30)** marks
4. Cellular phones and any unauthorized materials are **not** allowed in the examination room.
5. Non-programmable calculators may be used.
6. Write your **Examination Number** on every page of your answer booklet (s)

SECTION A (70 marks)

Answer **all** questions in this section

1. Account for five disadvantages of using human power in the farm and five factors affecting human working capacity.
2. (a) Briefly explain the functions of the five plumbing tools to be used for connecting pipes in a network of irrigation system.
(b) advise the farmer on how to construct a suitable structure to confine the animal for dehorning.
3. (a) Point out six problems of using machines in agriculture that are associated with farmers.
(b) Give four conditions which favour the use of sprinkler irrigation over surface irrigation.\
4. Suggest five farming practices that can be used by the farmer to improve soil structure for crop production.
5. Examine one characteristic and two management implications of the following soil colours
 - (a) black
 - (b) white
 - (c) red
 - (d) brown
 - (e) grey
6. Analyse five ways in which the level of nutrients can decline in the soil.
7. Justify the statement that functions and deficiency symptoms of mineral elements in plants are directly related, using magnesium and calcium as examples.

SECTION B (30 Marks)

Answer **two (2)** questions in this section

8. (a) Explain how the biological nature of agricultural production influences change in the prices of agricultural goods by giving two points.
- (b) Give three positive effects and three negative effects of controlling the prices of agricultural goods.
9. (a) Account for the four importance of foreign reserve as it is used in international trade.
- (b) give reasons on why the following factors are considered when drawing a farm plan
- (i) environmental factor
 - (ii) farmer's objectives and preference
 - (iii) availability and costs of input and
 - (iv) security
10. Examine five ways that can be used by the management to improve labour productivity in the farm.