

**THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATION COUNCIL OF TANZANIA
DIPLOMA IN SECONDARY EDUCATION EXAMINATION**

735

AGRICULTURE TEACHING METHODS

Time: 3 Hour.

Monday, 10th May 2004 p.m.

Instructions

1. This paper consists of section **A** and **B**.
2. Answer **all** questions in section A, and **four (4)** questions from section B.
3. Section A carry **forty (40)** and section B carries **sixty (60)** marks.
4. Cellular phones are **not** allowed in the examination room.
5. Write your **Examination Number** on every page of your answer booklet(s).

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SECTION A (30 Marks)

Answer all questions in this section.

1. List four examples of perennial crops grown in Tanzania.
2. Identify four advantages of mixed farming in rural communities.
3. State four reasons why seed treatment is important before planting.
4. Mention four symptoms of disease in farm animals.
5. List four sources of agricultural capital for school farms.
6. Give four advantages of farm mechanization.

SECTION B (40 Marks)

Answer any four (4) questions from this section.

7. Explain five roles of agricultural education in reducing unemployment among Tanzanian youth.
8. Describe five features of a well-managed school farm.
9. Explain five practices that help improve soil fertility in school gardens.
10. Discuss five ways in which climate change is affecting agriculture in Tanzania.
11. Explain five factors to consider when selecting a crop for school farming projects.
12. The table below shows data collected from a maize demonstration plot:

Treatment	Plot A (kg)	Plot B (kg)
With Fertilizer	86	92
Without Fertilizer	56	60

- (a) Calculate the average yield for each treatment.
- (b) What is the yield difference between the two treatments?
- (c) Suggest two possible reasons for the observed yield difference.
- (d) Give two uses of this type of data in student learning.

SECTION C (30 Marks)

Answer any two (2) questions from this section.

13. Prepare a summary of a lesson on “Classification of Crops” including:
- (a) Basis of classification
 - (b) Types of crops and examples
 - (c) Learning activities
 - (d) Importance of the topic
 - (e) Conclusion
14. A group of students conducted a project on compost manure preparation. Write a report that includes:
- (a) Objectives
 - (b) Materials and tools used
 - (c) Procedure followed
 - (d) Observations made
 - (e) Challenges and recommendations
15. Write an essay explaining five barriers to the adoption of improved animal husbandry techniques among small-scale farmers and suggest five ways to overcome them.
16. You are organizing a practical activity on nursery bed preparation. Explain five steps students must follow and five benefits of conducting such a practical in agriculture teaching.
17. Discuss five contributions of irrigation to agricultural development in semi-arid areas and five limitations that schools may face in practicing irrigation.

18. Explain five types of agricultural records that can be kept in a school farm and describe five uses of each type in managing student agricultural projects.