

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

735

AGRICULTURE TEACHING METHODS

Time: 3 Hour.

Monday, 14th May 2001 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 from this section. Each question carries 3 marks.

1. Mention four ways through which soil structure can be destroyed during farming activities.
2. Give four criteria used when selecting seeds for planting in school farms.
3. List four signs of a healthy animal observable during livestock inspection.
4. Identify four reasons for conducting spacing during crop planting.
5. Mention four roles played by potassium in plant growth and development.
6. State four control measures against bacterial diseases in vegetable crops.

SECTION B (40 Marks)

Answer any four (4) questions from this section. Each question carries 10 marks.

7. Explain five disadvantages of monoculture in school agricultural production and suggest five practices that reduce its negative effects.
8. A school garden project grew 1,200 heads of cabbage in a season. Each cabbage head weighed 1.8 kg. The market price was 1,500 TZS per kg.
 - (a) Calculate the total yield in kilograms.
 - (b) Find the total income earned.
 - (c) If total production costs were 1,200,000 TZS, calculate the profit.
 - (d) What is the profit per cabbage head?
 - (e) List two reasons why record-keeping of this project is necessary.
9. Describe five environmental conditions that favour the successful growth of Irish potatoes and five management practices needed after planting.
10. Explain five factors to consider when constructing animal housing and five consequences of poor housing in livestock production.

11. A teacher wants to introduce compost manure production in the school. Explain five steps for preparing compost manure and five precautions to observe during its production.
12. Write short notes on each of the following agricultural tools:
- (a) Pruning saw
 - (b) Grafting knife
 - (c) Dibber
 - (d) Rake
 - (e) Wheelbarrow

SECTION C (30 Marks)

Answer any two (2) questions from this section. Each question carries 15 marks.

13. You are planning a school project on layer chicken production. Prepare a proposal that includes:
- (a) Project objectives
 - (b) Facilities and equipment required
 - (c) Budget summary
 - (d) Risks and risk management
 - (e) Expected outcomes and evaluation method
14. Write an essay explaining five factors that cause low crop productivity in Tanzania and five long-term strategies to improve crop production in secondary schools.
15. A student is asked to prepare a lesson on classification of crops.
- (a) Describe five criteria used to classify crops and provide examples for each.
 - (b) Explain five reasons why such classification is important in agricultural learning.
16. Describe five contributions of agriculture to national development and five challenges facing the agricultural sector in Tanzania today.

17. A school is introducing an agroforestry project. Explain five advantages of agroforestry and five practices involved in managing such a system.
18. Discuss five reasons for promoting youth engagement in agriculture and five barriers that discourage youth from participating in farming activities.