

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

AGRICULTURE TEACHING METHODS

5
Time: 3 Hours

Monday, 12th May 2014 p.m.

Instructions

This paper consists of sections A and B.

Answer **all** questions in sections A and **four (4)** questions from section B.

Section A carries **forty (40)** marks and section B carries **sixty (60)** marks.

Cellular phones are **not** allowed in the examination room.

Write your **Examination Number** on every page of your answer booklet(s).

SECTION A (40 Marks)

Answer **all** questions in this section.

1. Briefly describe four components of the agriculture science syllabus.
2. Identify four components of the diesel system that a Form II student will learn from the of "Fuel System".
3. State four conditions in which demonstration teaching and learning method must be adopted.
4. (a) Name two categories of instructional media.
(b) Give three differences between a syllabus and course curriculum.
5. With examples, briefly explain four reasons for having agricultural science workshops in secondary schools.
6. Briefly describe four rules applied in the agriculture laboratory.
7. Mention four modern forms of communication which can be used in teaching and learning agriculture.
8. Being a classroom manager, specify four aspects to be done in ensuring good relationships among learners in the classroom.
9. Enumerate four advantages of teaching and learning by excursion in Agriculture.
10. Briefly describe four factors to consider when constructing a classroom test.

SECTION B (60 Marks)

Answer **four (4)** questions from this section.

11. Describe five major components of agriculture science textbook.
12. (a) State the Law of Diminishing (Marginal) Returns.
(b) Explain five types of costs in agricultural production.
13. Suppose you are teaching a lesson on "Crop Production". Prepare a lesson notes indicating learners' activities on the following aspects:
 - (a) Land preparation/Tillage
 - (b) Planting
 - (c) Weeds and Weed Control

- (d) Pests and Disease and their control
- (e) Harvesting
- (f) Storage.

Explain five situations that force teachers to use lecture method in teaching agriculture science subject despite its limitation as a non participatory.

Show five major insect pests of maize and state the damage symptom for each pest.

An agriculture science teacher laments "with overloaded time table, preparation of lesson plan is wastage of time". Criticize this statement basing on five importance of a lesson plan.

Describe four advantages and four disadvantages of essay items in a classroom test.

Imagine you have been posted to a new school which has no school farm and you want to establish it. Describe the necessary steps to follow when planning a school farm.