

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

134/2

AGRICULTURE 2

(For Both School and Private candidates)

Time: 3 Hours

Year: 2020

Instructions

1. This paper consists of sections **A** and **B** with a total of **ten (10)** questions.
2. Answer **all** questions.
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. Give a brief explanation on four cultural control methods that suppress pest population in integrated pest management.
2. (a) Explain to farmers on how to identify prevalence of viral disease in crop plants on the field by giving five points.
(b) Briefly describe five agronomic practices that can be used to control disease infestation in plants.
3. Briefly describe five ways to be taken in order to control *Striga spp.*
4. (a) Justify the contention that ‘plant disease are harmful’ by giving four points.
(b) (i) give three symptoms which might be observed to enable the farmer to identify Maize Streak Virus Disease,
(ii) suggest six control measures of maize streak disease.
5. Argue for and against the use of pure line selection in plant breeding by giving five points in each case.
6. Describe the ways of collecting semen by using artificial vagina in a cattle by giving seven points.
7. Describe the function of the parts of the digestion system in poultry with the aid of an illustration.

SECTION B (30 Marks)

Answer **all** questions in this section

8. (a) Briefly explain four limitations of natural pastures in livestock production in Tanzania.
- (b) give five points to educate livestock keeper in Tanzania on how to overcome limitations of natural pastures.
9. Briefly explain to what extent is genetic engineering important in agriculture by giving five points.
10. (a) Identify other six symptoms expected from a chicken in which the faeces sample were taken,
- (b) Prescribe appropriate treatment for the infection of the chicken of which faeces were taken for laboratory examination.
- (c) suggest six measures to be taken by farmers to control and prevent infection of the parasite of which oocysts were observed in the faeces.