

081104T4AEX

AGRICULTURAL EXTENSION LEVEL 4

AGR/OS/EXT/CR/02/4

Perform Crop Protection

July /Aug 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

WRITTEN ASSESSMENT

Time: 2 Hours

INSTRUCTIONS TO CANDIDATE

1. The paper consists of **TWO** sections: **A** and **B**.
2. Marks for each question are indicated in brackets.
3. Do not write on this question paper.
4. Write your answers in the answer booklet provided.

This paper consists of FOUR (4) printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A: (10 MARKS)

In this section, each question carries one (1) mark. Attempt all questions in this section.

Choose the correct answer and write it in the answer booklet provided.

1. Identify ONE of the following that is not a field pest
 - A. Weevil
 - B. Quelea quelea
 - C. Mole
 - D. Monkey
2. Select a personal protective equipment from the following
 - A. Measuring cylinder
 - B. Knapsack
 - C. Dust coat
 - D. Measuring tape
3. The following are ways of pest control except
 - A. Crop rotation
 - B. Mixed cropping
 - C. Field hygiene
 - D. Planting of certified seeds
4. State the role of pesticides in crop rotation
 - A. Increased water absorption
 - B. Control pest and diseases
 - C. Enhance photosynthesis
 - D. Improve soil structure
5. Give the purpose of crop rotation
 - A. Improving taste
 - B. Boosting aroma
 - C. Increasing yield
 - D. Enhancing color

6. State the role of herbicides in crop rotation
 - A. Improve yield
 - B. Build soil structure
 - C. Increase water absorption in the soil
 - D. Increase diseases in crop
7. Choose among the following one that is NOT a method of pest and disease control in crops
 - A. Biological method
 - B. Cultural method
 - C. Mixed farming
 - D. Integrated method
8. State the danger of leaving crop residue in the field after harvesting
 - A. Improve water retention
 - B. Increase soil fertility
 - C. Attract beneficial insects
 - D. Harbor pest and diseases
9. Name a common method of biological control in crop protection
 - A. Using synthetic chemicals
 - B. Applying excessive irrigation
 - C. Avoiding sunlight exposure
 - D. Introducing natural predators
10. State the purpose of using fungicides in crop protection
 - A. Enhance soil structure
 - B. Manage fungal disease
 - C. Improve crop color
 - D. Control insect pests

SECTION B: (40 MARKS)***Attempt all questions in this section.***

- 11) a) List ONE viral disease of maize. (1 Mark)
b) Name THREE field and storage crop pests. (3 Marks)
c) State THREE harmful effects of crop pests on crops. (3 Marks)
- 12) Give THREE chemical measures of diseases control in crop protection. (3 Marks)
- 13) Outline FOUR categories of crop pests. (4 Marks)
- 14) a) Name TWO diseases caused by fungi in crops. (2 Marks)
b) State:
i. THREE symptoms of viral infection in crops. (3 Marks)
ii. TWO symptoms of bacterial infection in crops. (2 Marks)
- 15) Name FOUR ways in which weeds are of economic importance to farmers. (4 Marks)
- 16) State THREE factors that influence the efficiency of pesticides. (3 Marks)
- 17) Give FOUR management practices of tools and equipment used in crop protection. (4 Marks)
- 18) a) Give ONE example of insect pests with piercing and sucking mouthparts. (1 Mark)
b) What damage can such pest cause to a plant apart from sucking plant sap? (1 Mark)
- 19) Give FOUR factors that affect the selectivity and effectiveness of herbicides. (4 Marks)
- 20) Outline THREE cultural methods of controlling crop pests/diseases. (3 Marks)

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