

UNIT OF COMPETENCY: PROTECT CROP

UNIT CODE: AGR/OS/EXT/CR/05/6

MAIN WRITTEN ASSESSMENT

INSTRUCTIONS TO CANDIDATE

1. This assessment requires you to demonstrate competence against unit of competency:
Protect crop
2. You have **TWO HOURS** to attempt all the questions.
3. Marks for each question are indicated in brackets ().

This paper consists of **TWO** sections: A and B

Do all questions in section A and THREE questions in section B

SECTION A: SHORT ANSWER QUESTIONS (40 MARKS)

1. Give **FOUR** key categories of crop diseases farmers in Kenya need to prepare to control in their crop production farms(4marks)
2. A farmer is planning to build a pesticide storage structure advise him/her on the key requirement of the store as recommended by PCPB in Kenya (4 marks)
3. In an event of an accident related to pesticides one should be aware of basic first aid. Give **TWO** basic first aid you would recommend. (2 marks)
4. In Kenya pest and disease management is a crucial undertaking farmer are being advised to use IPM. In your own knowledge give **FOUR** advantages of using Integrated pest management (IPM) important(4marks)
5. A farmer intends to purchase pesticides from an agrochemical shop. List the key information about the pesticide they should check (5marks)
6. Outline **FOUR** major diseases of interest to crop growing farmers (4marks)
7. Highlight **FIVE** cultural methods you can recommend for pest and disease management (5marks)
8. Outline **FOUR** symptoms that are common in nematodes infestation of crops. (4marks)
9. What are the **THREE** categories used to classify pesticides (3marks)
10. Highlight **FOUR** First aid skills essential when handling pesticides (3marks)
11. Give **THREE** entry routes of pesticides poisoning (3 marks)
12. Identify uses of blue and yellow insect traps in the greenhouse (2 marks)

SECTION B: EXTENDED RESPONSE QUESTIONS (60 MARKS)

13. A farm crop scout has to understand that chemical method of crop protection.

- a) Discuss five types liquid pesticide formulations (10 marks)
- b) Give FIVE direct effects of biting and chewing insects to fruit plants (5marks)
- c) Elaborate five pesticide application documents you recommend to small-scale farmer(5marks)

14. Crop scouting is a crucial step in pest and disease management to any crop producing farmer.

- a) Explain the importance of carrying out scouting(5marks)
- b) Write short notes of detail the scout must have in the final scouting report that is used to schedule crop protection plans (10 marks)
- c) Give five issues that a farmer has to prioritize in order to efficiently scout any crop field(5marks)

15. Three basic sprays are recognized according to total volume of pesticides mixture applied per unit area of ground

- a) Explain the differences according to your knowledge of each application method respectively: high volume (HV), Low Volume (LV) and ultra-low volume (ULV) (6marks)
- b) Give benefits of recommending high volume application to farmer as compared to high volume and ultra-low volume(6 marks)
- c) Physiological diseases are a challenge currently in vegetable crop production. Discuss FIVE types of Physiological diseases (8marks)

16. The agricultural department in your county requests you to give a talk to crop producing farmer on the key methods of pesticide application.

- a) Discuss FIVE application equipment you would talk about. (10marks)
- b) Discuss the good storage practices farmers should consider in their pesticide storage facilities(10marks)