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UNIVERSITY EXAMINATIONS 2023/2024

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN
AGRICULTURAL EXTENSION

AGR/OS/EXT/CR/05/6: PROTECT CROP

DATE: APRIL 2023

TIME: 3HOURS

INSTRUCTIONS: Answer Question ONE and any other THREE questions.

QUESTION ONE (40 MARKS)

1. What are the key categories of insect pests that 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 (5marks)
3. In an event of an accident related to pesticides an access to local emergence contacts should be available. Which key contacts one should have in case of emergency arising from pesticides in Kenya (5marks)
4. In Kenya pest and disease management is a crucial undertaking farmer are being advised to use IPM. In your own knowledge give FIVE advantages of using Integrated pest management (IPM) important (5marks)
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 SIX cultural methods you can recommend for pest and disease management (6marks)
8. Outline FIVE symptoms that are common in fungal infections whether alone or in combination with other fungal pathogens. (5marks)
9. What are the THREE categories used to classify pesticides (3marks)



10. Highlight THREE First aid skills essential when handling pesticides (3marks)

SECTION B (60MARKS)

11. A farm crop scout has to understanding that assessment of pest damage in crop field is important.

- a) Explain how you can carry out damage assessment and forecasting for the extent of insect pest problem on crop plants (8marks)
- b) Give FIVE direct effects of biting and chewing insects to fruit plants (5marks)

12. 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) Give SEVEN detail the scout must have in the final scouting report that is used to schedule crop protection plans (7marks)
- c) What are the issues that a farmer has to prioritize in order to efficiently scout any crop field (5marks)

13. 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) Why can you recommend high volume application to farmer as compared to high volume and ultra-low volume (6marks)
- c) Physiological diseases are a challenge currently in vegetable crop production. Give FOUR types of Physiological diseases and a symptom on the plants in each respectively (8marks)

14. 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)

