

WEEK 1-3

CROP PESTS AND DISEASES

This topic entails the following:

- Definition of a pest and a disease
- Main cause of crop diseases
- Description of harmful effects of crop pests and diseases
- Identification of crop pests and diseases
- Control measures of crops pests and diseases

The following relevant questions and their answers in this topic will greatly motivate and help the user to comprehend and understand the required concepts and practices:

1. State **two** possible causes of swelling on the roots of legume crops
2. Discuss the various cultural methods of controlling pests in crops
3. What does the term 'close season' mean in crop production?
4. Explain **five** cultural methods of pest control in stored grains
5. Name **four** symptoms of viral infections in plants
6. Study the illustrations given below and then answer the questions that follow:-

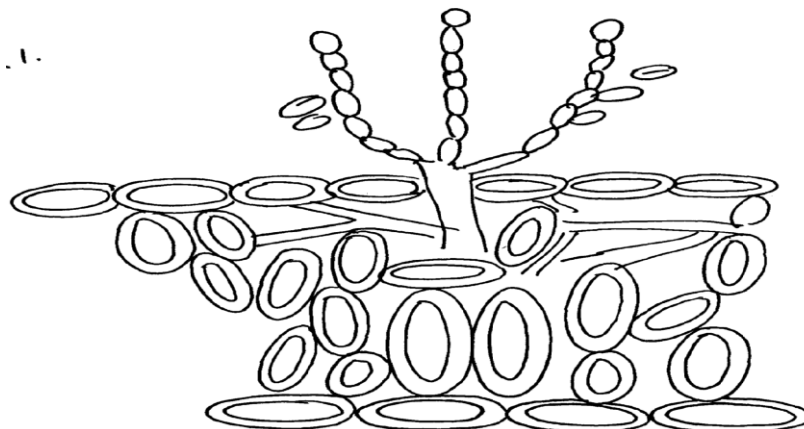
C

D

- (a) Identify the pests shown by the illustrations **B**, **C** and **D**

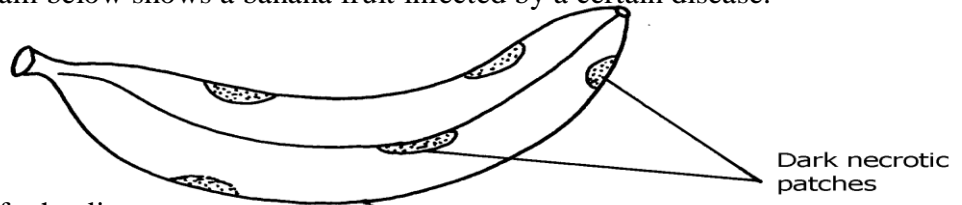
- (b) State **one** effective method of controlling the pest labelled
- (c) Name the type of crop commonly attacked by the pest labelled 'C'
7. State the various practices carried out in the field to help control crop diseases
8. State **two** ways in which pesticides kill crop pests
9. The diagram below shows kale seedling attacked by a pest

- (a) Identify the pest
- (b) What damage does the pest cause to the crop
- (c) State **two** methods of controlling the pest
11. Define the term 'economic injury level of a pest and integrated pest control management
12. List **four** harmful effects of crop pests
13. The diagram below shows a fungal disease in a section of potato crop leaf



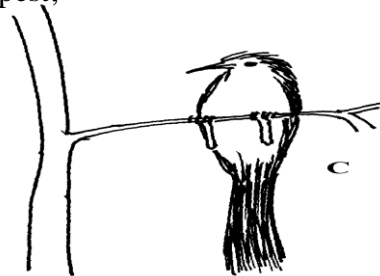
- a) Identify the fungal disease
- b) (i) State the causal organism of the disease identified above
- ii) Give **two** symptoms of the above disease
- c) Give **two** control measures of the disease

14. The diagram below shows a banana fruit infected by a certain disease.



- (a) Identify the disease
- (b) Suggest any **one** control measure for the disease you have named in (a)

15. The diagram below shows a crop pest;



- (a) Identify the crop pest
- (b) State **two** damages the pest would cause to crops

- 16. Give two symptoms of nematode attack on bananas.
- 17. Give **four** cultural practices used in controlling crop pests
- 18. State **three** symptoms of coffee berry disease.

19 (i) Use the diagrams below to answer the question that follow.



- (a) Identify the crop pests labeled M, N and P

(b) State **one** control measures of crop pests labeled **M**

(c) State the damage caused to crops by crop pest labeled **N**

20. State and explain the cultural methods of pest control

WEEK 7-8

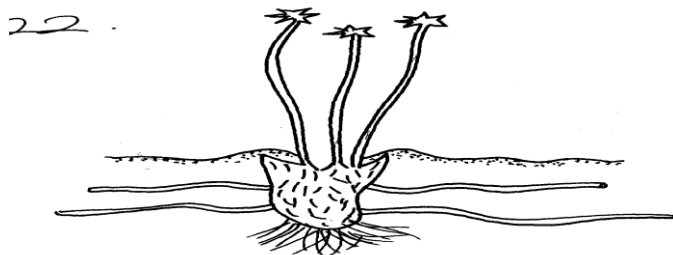
WEEDS AND WEED CONTROL

This topic entails the following:

- Definition of a weed
- Identification of weeds
- Classification of weeds
- Competitive ability of weeds
- Description of weed control methods
- Harmful effects of weeds

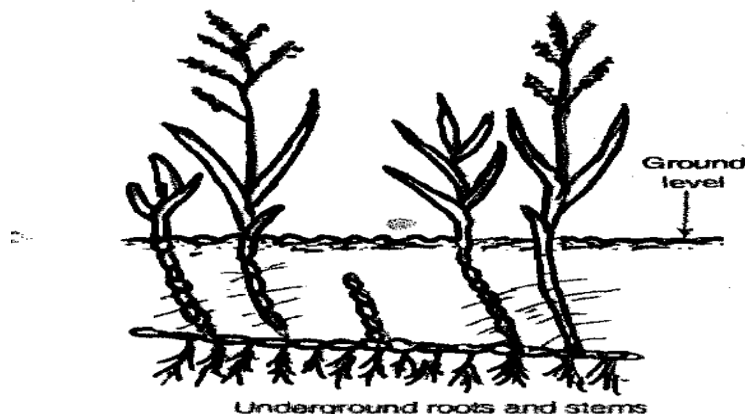
The following relevant questions and their answers in this topic will greatly motivate and help the user to comprehend and understand the required concepts and practices:

1. Study the diagram below and answer the questions that follow:



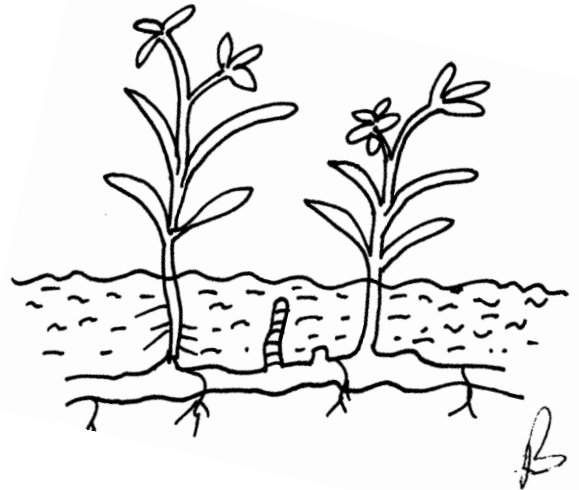
- (a) Identify the weed
- (b) Why is it difficult to control the weed?
- (c) State the economic importance of the weed shown above

2. The following is an illustration of a common weed of arable land



- (a) Identify the weed
- (b) Why is it difficult to control the weed?
- (c) State **one** harmful effect of the weed on crop production
- (d) Give **two** measures used to control the weed

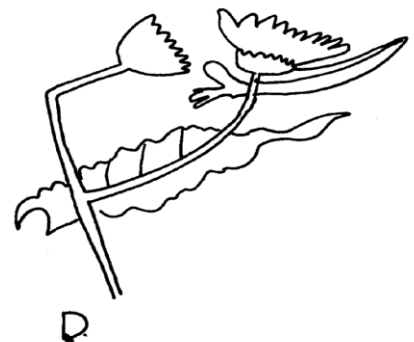
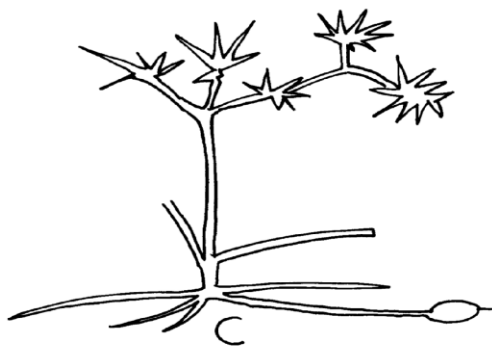
3. Below is a diagram of some common weeds. Study then and answer the questions that follow:-



- (i) Identify weed **A** and **B**
- (ii) State **two** effects of weed **B** on crop production
- (iii) Give a reason why weed **B** is difficult to control
- (iv) State the effective method of controlling weed **B**

4. Give **four** methods of propagation which make weeds have a high competitive ability over crops

5. The diagrams below show weeds:-



Identify the weeds **C** and **D**

- (b) State why it is difficult to control weed **C**
- (c) State **two** economic importance of weed **D**
6. (a) List any **four** types of weeds known to be poisonous to livestock
- (b) At what stage of life cycle is best recommended to control weeds?
7. State **two** disadvantages of using herbicides
8. a) Name **four** herbicides that can be used to control weeds in a field of maize
- b) At what stage of growth of maize should the weeds be controlled by use of a post emergence herbicides
9. (b) Give an account of economic importance of weeds
10. a) mention **two** factors that affect selectivity of herbicides
11. Listing specific examples of weeds describe their harmful effects in agricultural production

WEEK 4-6

FORAGE CROPS

This topic entails the following:

- Definition and classification of pasture crops.
- Identification of pasture crops
- Description of ecological requirements of forage crops
- Description of the establishment of pasture and fodder crops
- Description of forage utilization and conservation.

The following relevant questions and their answers in this topic will greatly motivate and help the user to comprehend and understand the required concepts and practices.

1. State **three** factors which affects the quality of standing forage given to livestock
2. Explain Napier grass production under the following sub-headings
 - i) Seedbed preparation
 - ii) Planting
 - iii) Fertilizer application
 - iv) Weed control
 - v) Utilization
3. Why is it necessary to allow freshly cut nappier grass to wilt before ensiling
4. Describe the establishment of grass pasture from the time the land is ploughed using a mould board plough to the time the pasture is ready for grazing
5. State **two** causes of failure in pasture establishment
6. State **two** advantages of grass-legume mixture
7. List **four** factors that determine the quality of hay
8. i) Discuss the production of Guatemala grass (*Tripsacum Laxum*) under the following headings
 - a) Ecological required
 - b) Land preparation
 - c) Planting

- d) (i) Utilization and defoliation
- ii) Discuss **six** effects of late defoliation of fodder
9. Give **four** factors that determine the nutrient content in hay
10. (a) Describe the preparation of the following farm materials:-
- (i) Farm yard manure
- (ii) Hay
- (b) Explain the factors considered in timely planting of annual crops
11. (a) What is topping in pasture management
- (b) State two methods used in topping in pasture management
12. Give **two** advantages of grass-legume pasture over pure grass pasture
13. Why are farmers encouraged to conserve excess forage in the farm?
14. Give **two** factors affecting the quality of hay

FORAGE CROPS