

SECTION B (20 MARKS)

Answer ALL questions from this section in the spaces provided

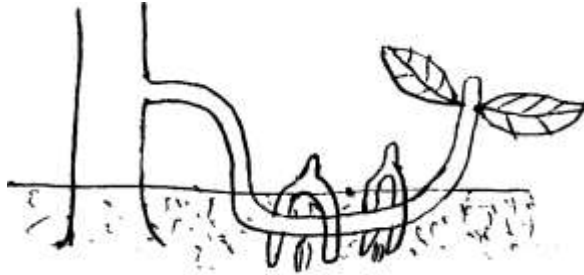
1. a) Study the diagram below and answer the questions that follow.

i) What is layering?

(1 mark)

ii) Identify the type of layering shown below.

(1 mark)

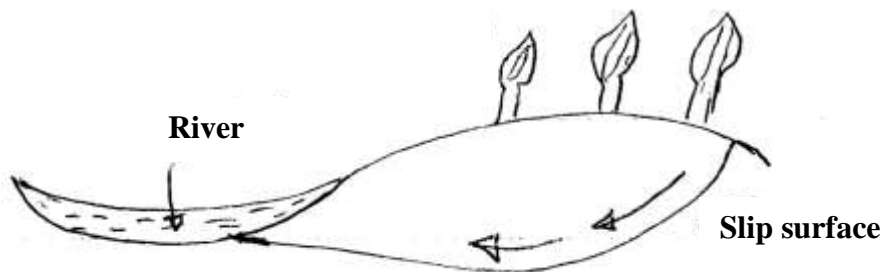


b) Give **two** advantages of tissue culture in crop production.

(2 marks)

2. a) Identify the type of erosion below.

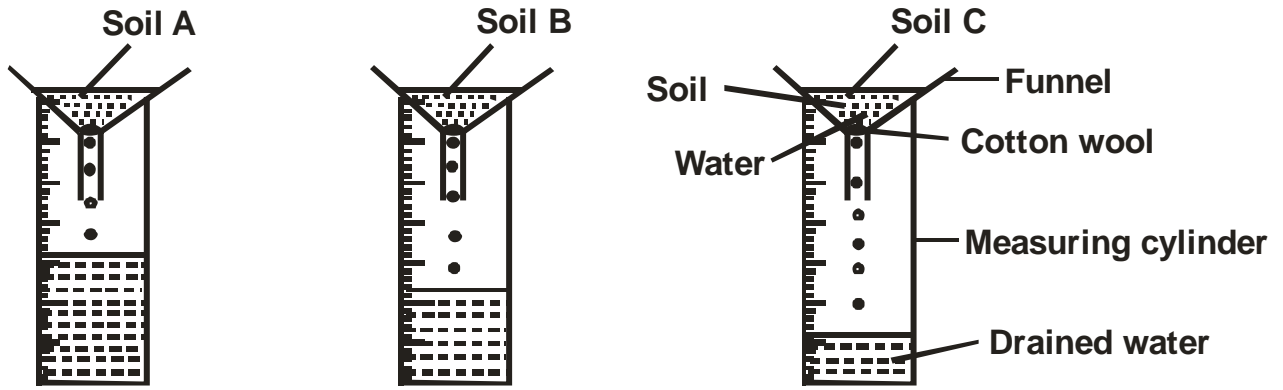
(1 mark)



b) Name **four** agents of soil erosion.

(4 marks)

3. The diagram below illustrates an experiment on soil. Study it carefully and answer the questions that follow.



a) State the aim of the experiment. (1 mark)

b) If the volume of water illustrated in the measuring cylinder was observed after one hour identify the soil sample labelled A and B.

Soil sample A. (½ mark)

Soil sample B. (½ mark)

c) State **two** ways in which the soil structure of the sample labelled C above can be improved. (2 marks)

4. The diagram below illustrates a maize cob attacked by a disease. Study it carefully and answer the questions that follow.



a) Identify the disease. (1 mark)

- b) Apart from maize give **four** other crops that may be attacked by the disease. (2 marks)

- c) State **four** methods of controlling the disease. (4 marks)

SECTION C (40 MARKS)

Answer any TWO questions from this sections in the spaces provided.

5. a) Explain **six** advantages of mulching in crop production. (6 marks)
 b) Explain **six** factors that should be considered when siting a nursery bed. (6 marks)
 c) Describe various biotic factors influencing agricultural production. (8 marks)
6. a) Outline **six** ways of maintaining soil fertility. (6 marks)
 b) Describe **four** advantages of tillage as a method of weed control. (4 marks)
 c) Give **four** types of pesticide based on their mode of action. (4 marks)
 d) Describe the steps followed in single stem pruning in coffee. (6 marks)
7. a) Give the advantages of mixed grass pasture over a pure grass pasture. (6 marks)
 b) Describe the establishment and management of grass pasture to the time it is ready for grazing under the following sub-heading:
 i) Land preparation. (3 marks)
 ii) Planting. (4 marks)
 iii) Field management practices. (7 marks)

