Revision Week 1

AGRICULTURE GRADE 10 (FORM 4)

Section A

1. Fig 1. shows part of the nitrogen cycle.

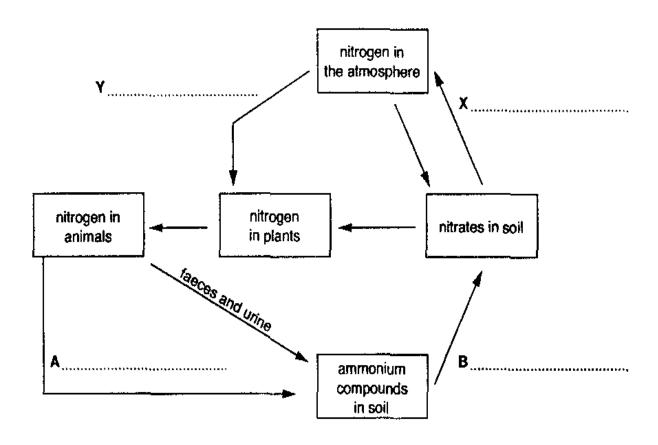


Fig 1.

- (a) On the diagram,
 - (i) complete label A,
 - (ii) complete label B.
- (b) On the diagram,
 - (i) write the name of the type of bacteria at X,
 - (ii) write the name of the type of bacteria at Y.
- (c) State the type of plant associated with bacteria Y.

2. Fig. 2 shows four hand tools that can be used when preparing a seed bed.

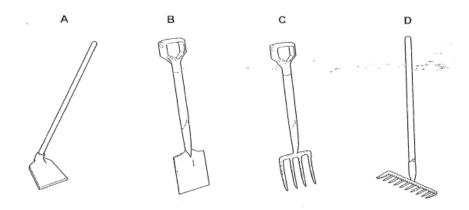


Fig 2.

Choose one of the tools shown in Fig. 2.

- (a) State which tool, A, B, C or D, you have chosen. Explain the purpose of this tool in preparing a seed bed.
- (b)(i) Describe how rust could be prevented on the metal part of the tool.
 - (ii) State one way in which the wooden part of the tool might deteriorate over time.
 - (iii) Describe action that could be taken to prevent this damage.
 - 3. Fertilisers may be inorganic chemicals or organic material such as farmyard (kraal) manure.
 - (a) Listed below are three inorganic compound fertilisers.

fertiliser X	fertiliser Y	fertiliser Z
N:P:K	N:P:K	N:P:K
(10:20:10)	(22:11:11)	(13:13:20)

Complete the table by choosing the fertiliser that would be most suitable for each crop and give a reason for each choice.

type of crop	fertiliser	reason
leaf		
e.g. cabbage, lettuce		
root		
e.g. yam, cassava		
Fruit		
e.g. tomato		

(b) Fig. 3 shows farmyard manure that is being stored in an open shed with a roof.

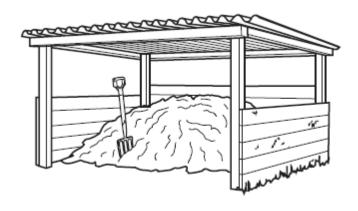
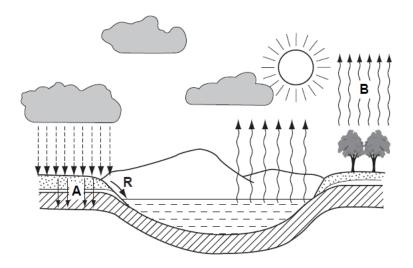


Fig 3.

Suggest why it would be an advantage to keep the manure under a roof.

4. Fig 4. shows the water cycle.



- (a) Give the names of the processes at A and B.
- (b) (i) Process R is run-off.

 State one reason why run-off is a problem for farmers.
 - (ii) Describe one method by which run-off can be prevented.

Section B

- 5. a. Define crop rotation
 - b. Describe a 3 course rotation using the following crops: bean, cabbage, carrot.
 - c. State 3 advantages of crop rotation.
- 6. a. What is weathering?
 - b. Give one example of
 - (i) biological,
 - (ii) physical,
 - (iii) chemical

weathering agents and describe how each one affect weathering.

- 7. a. Write short notes on each of the followings:
 - (i) monoculture
 - (ii) mixed farming
 - (iii) interline cropping
 - b. State two advantages and two disadvantages of mixed farming.
 - c. How does monoculture affect soil fertility.