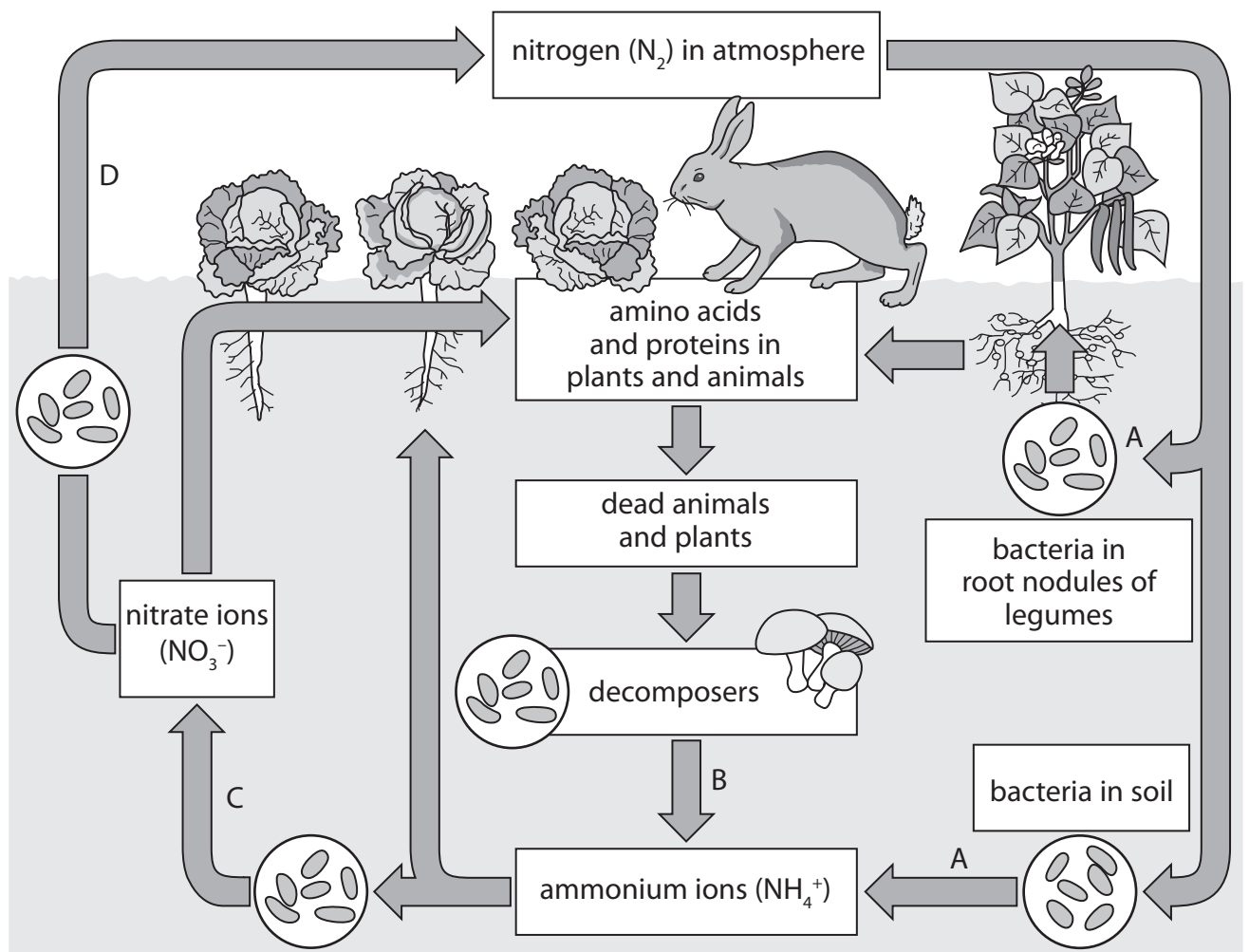


6 The diagram shows the nitrogen cycle with four different stages labelled A, B, C and D.



(a) Name the processes A, B, C and D.

(4)

- A
- B
- C
- D

(b) Name two different groups of organisms that act as decomposers.

(2)

1

2

(c) The nitrogen in a nitrate ion in the soil can become the nitrogen in a protein molecule in an animal.

Explain how this happens.

(4)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(d) Farmers sometimes add fertiliser to the fields in which they grow their crops.

Suggest two advantages of using animal waste as a fertiliser rather than using a chemical fertiliser.

(2)

1

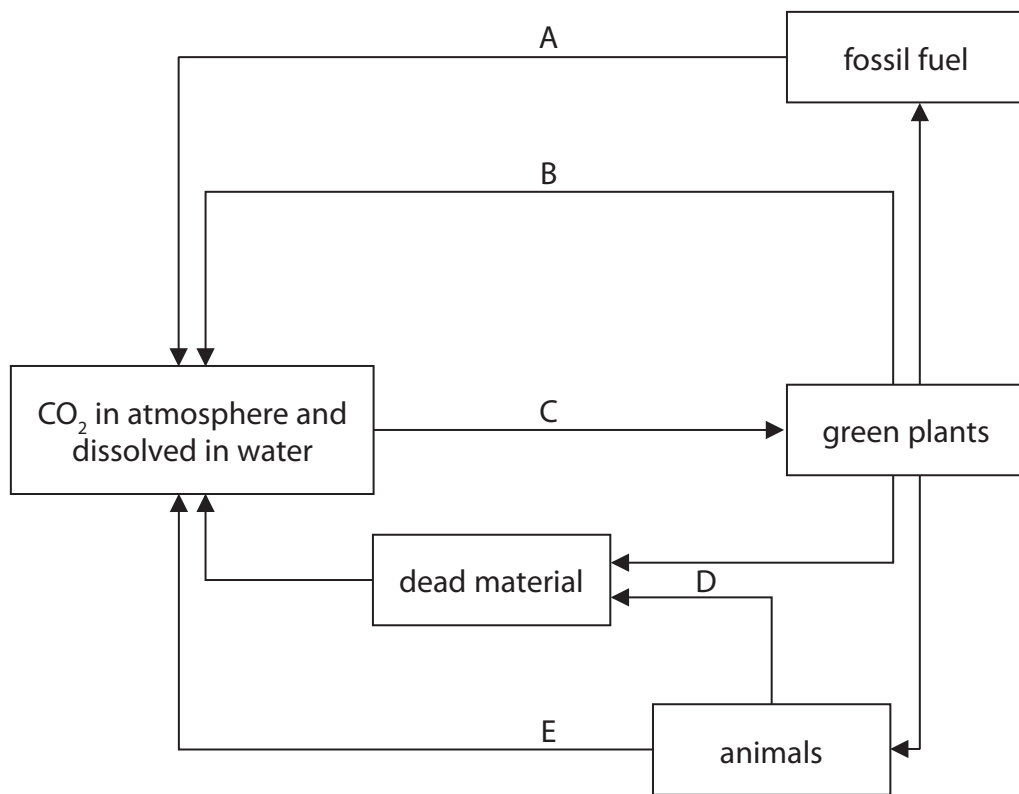
.....

2

.....

(Total for Question = 12 marks)

2 The diagram shows the carbon cycle.



(a) (i) Identify the processes labelled A, B, C, D and E.

(5)

- A
- B
- C
- D
- E

(ii) Give the letter of the process that reduces the carbon dioxide in the atmosphere.

(1)

(b) An increase in the level of carbon dioxide in the atmosphere can lead to an enhanced greenhouse effect.

Describe the possible consequences of an enhanced greenhouse effect.

(4)

(c) Suggest two ways to reduce the build up of greenhouse gases in the atmosphere.

(2)

1

2

(Total for Question = 12 marks)