

3 Fig. 3.1 is a diagram of the nitrogen cycle.

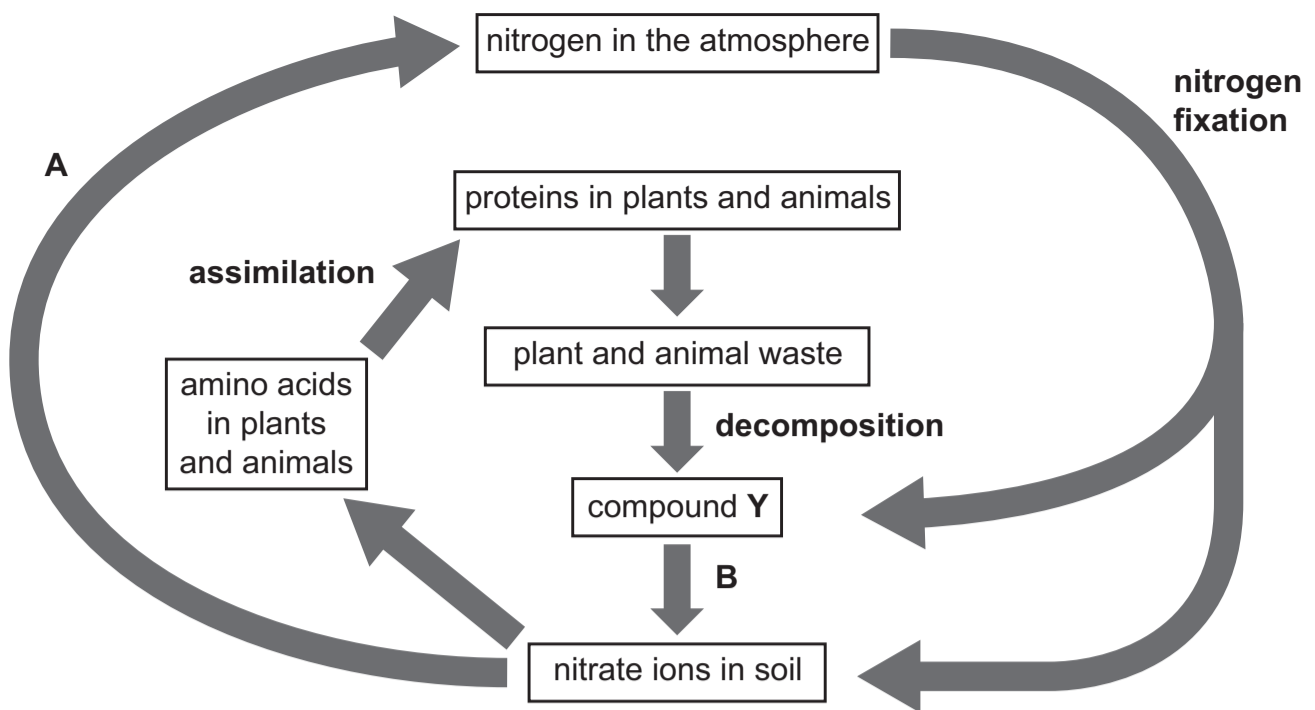


Fig. 3.1

(a) (i) State the names of processes **A** and **B** in Fig. 3.1.

A

B [2]

(ii) State **two** ways that nitrogen fixation can occur.

1

2 [2]

(iii) State the name of compound **Y** in Fig. 3.1.

..... [1]

(iv) State the name of an organ in animals, where assimilation **and** deamination of amino acids occurs.

..... [1]

(v) Describe the process of deamination.

.....

 [2]

(b) Complete the sentences about pollution of the air by writing the appropriate words or phrases in the spaces provided.

Methane is a pollutant gas that contributes to the enhanced
 and climate change. Methane is released into the atmosphere from cattle and from the
 farming of crops.

..... is a gas that is absorbed by trees in the process
 of This gas is released into the atmosphere by the
 of fossil fuels, where it also contributes to climate change. [5]

(c) Explain the process of eutrophication in aquatic ecosystems.

.....

 [6]