

Deforestation

Q:1 In this question you will be assessed on using good English, organising information clearly and using specialist terms where appropriate.

Deforestation affects the environment.

Deforestation is causing a change in the amounts of different gases in the atmosphere. This change causes global warming and climate change.

Figure 11 shows an area of deforestation.



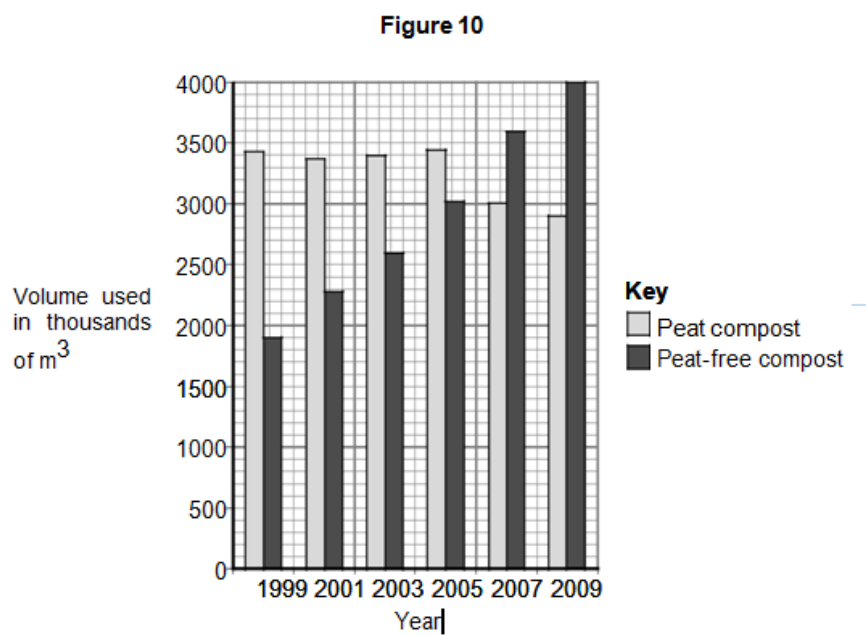
Give the reasons why deforestation is taking place.

Describe how deforestation is causing the change in the amounts of different gases in the atmosphere.

[6 marks]

Q:2 Human activities have many effects on our ecosystem.

Figure 10 shows the volume of peat compost and peat-free compost used in gardening from 1999 to 2009.



(a) Describe the trends shown in Figure 10.

[2 marks]

(b) What effect does the destruction of peat bogs have on the gases in the atmosphere?

[1 mark]

(c) Deforestation is also damaging ecosystems.

Describe one effect of deforestation on ecosystems.

[2 marks]

Q:3 Deforestation affects the environment in many ways.

(a) Deforestation increases the amount of carbon dioxide in the atmosphere. Give two reasons why.

1. _____

2. _____

(2 marks)

(b) Deforestation also results in a loss of biodiversity.

(i) What is meant by biodiversity?

(1 mark)

(ii) Give one reason why it is important to prevent organisms from becoming extinct.

(1 mark)

Q:4 The photograph shows an area where a tropical forest is being cleared.



(a) Complete the sentences.

People could use timber from the forest for _____

The cleared land can be used for _____

Clearing forests increases the concentration of _____

in the atmosphere.

This increase causes global _____

(4 marks)

(b) Clearing forests causes some species to become extinct.

(b) (i) What is meant by extinct?

(1 mark)

(b)(ii) It is important to prevent species from becoming extinct.

Give one reason why.

(1 mark)

Q:5 Deforestation affects the environment in many ways.

(a) Deforestation increases the amount of carbon dioxide in the atmosphere.

Give two reasons why.

1 _____

2 _____

(2 marks)

(b) Deforestation also results in a loss of biodiversity.

(b) (i) What is meant by biodiversity?

(1 mark)

(b) (ii) Give two reasons why it is important to prevent organisms becoming extinct.

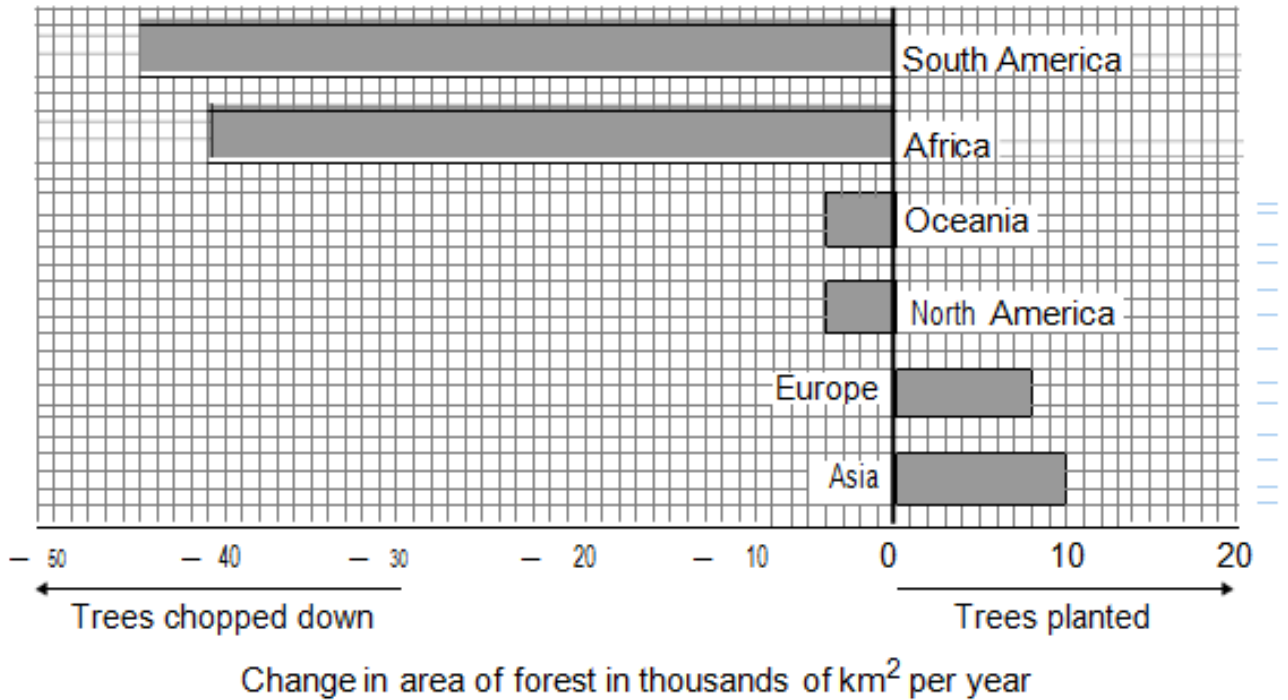
1 _____

2 _____

(2 marks)

Q:6 In many parts of the world, forests are being chopped down (deforestation) so that the land can be used to grow food crops. In other parts, trees are planted to produce new forests.

The graph shows how the area of forest in each of the continents is changing each year.



(a) (i) What area of forest is being lost in Africa each year?

Area = _____ thousand km²

(1 mark)

(a) (ii) Use Steps 1, 2 and 3 to calculate the total change to the area of forest each year.

Step 1 Calculate the total area of trees chopped down.

Total area chopped down = _____ thousand km²

Step 2 Calculate the total area of trees planted.

Total area planted = _____ thousand km²

Step 3 Use your answers from Steps 1 and 2 to calculate the total change in the area of forest.

Total change in area of forest _____ thousand km²

(3 marks)

(b) Draw a ring around the correct answer to complete each sentence.

(b) (i) Large scale deforestation reduces the number of species of

- plants only.
- animals only.
- both animals and plants.

(1 mark)

(b) (ii) The remains of the trees are broken down into carbon dioxide by

- lichens.
- microorganisms.
- plants.

(1 mark)

(b) (iii) The gas released into the atmosphere when trees are burned is

- carbon dioxide.
- methane.
- oxygen.

(1 mark)

Q:7 In South Asia, forests are being cleared to grow palm oil trees. The palm oil is mainly used to produce fuel for motor vehicles.

