

## Section B The living world

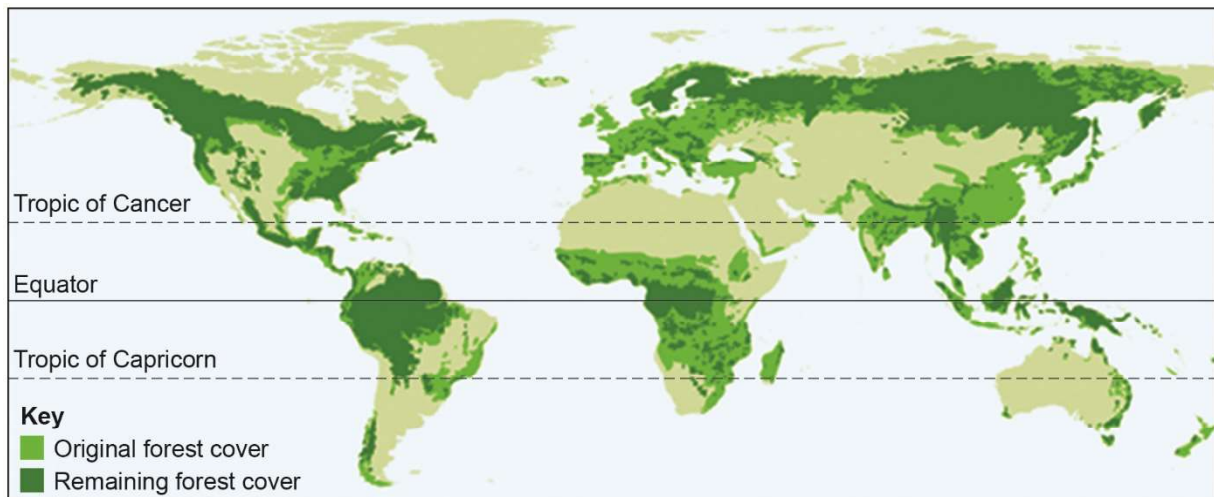
Answer **all** questions.

0 2

### The living world

Study **Figure 6**, a map showing global forest cover.

**Figure 6**



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1

Using **Figure 6**, which **one** of the following statements is true?

Shade **one** circle only.

[1 mark]

- A** Most of the world's forests are situated between the Tropic of Cancer and the Tropic of Capricorn. ☐
- B** The greatest amount of deforestation has occurred in North and South America. ☐
- C** A high proportion of the original forest cover has been removed in Africa and Europe. ☐
- D** Most of the original forest cover in south and east Asia still remains today. ☐

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2

Outline **one** reason for the high levels of biodiversity in tropical rainforests.

[2 marks]

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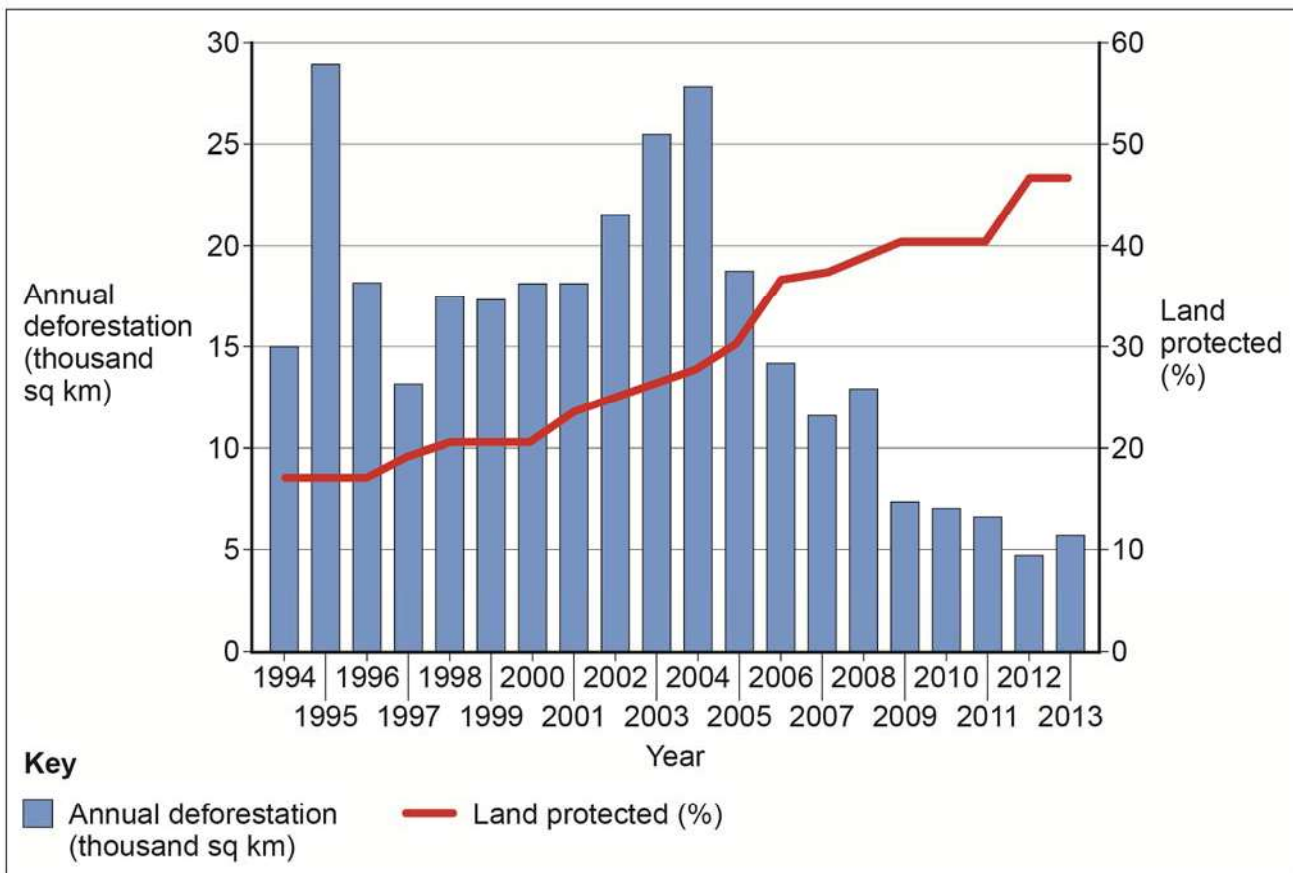
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Study **Figure 7**, a graph showing annual deforestation and land protected in the Amazon rainforest of Brazil between 1994 and 2013.

**Figure 7**



**0 2 . 3** Using **Figure 6**, which **one** of the following statements is true?

Shade **one** circle only.

**[1 mark]**

- A** Annual deforestation was over 15000 sq km in every year between 1994 and 2005. ☐
- B** The highest level of deforestation was in 1995 and the lowest level was in 2012. ☐
- C** The percentage of land protected increased by approximately 20% between 1994 and 2013. ☐
- D** Annual deforestation decreased every year between 2004 and 2013. ☐

**Turn over ►**

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Using **Figure 7**, suggest **two** reasons for the changes in annual deforestation in Brazil between 2004 and 2013.

[2 marks]

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2 \_\_\_\_\_

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Study **Figure 8**, information about Carajás mine in Brazil, South America.

**Figure 8**



#### Factfile

##### Carajás Mine

- Largest iron ore mine in the world.
- Area is estimated to contain over 6.5 billion tonnes of iron ore.
- Over 100 million tonnes iron ore mined each year, with much exported to Asia.
- Gold, manganese, copper, bauxite and nickel mined in smaller mines.
- Powered by Tucuruí hydro-electric power station.
- 900 km railway link built to the coast.
- Recent development of a new iron-ore mine to the south.
- Local Indians now unable to carry on their traditional farming.
- Many local Indians have died because of imported diseases such as measles.
- Some drinking water polluted by mercury, affecting the health of the local farmers.

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Using **Figure 8** and your own understanding, explain how deforestation can have economic impacts.

**[6 marks]**

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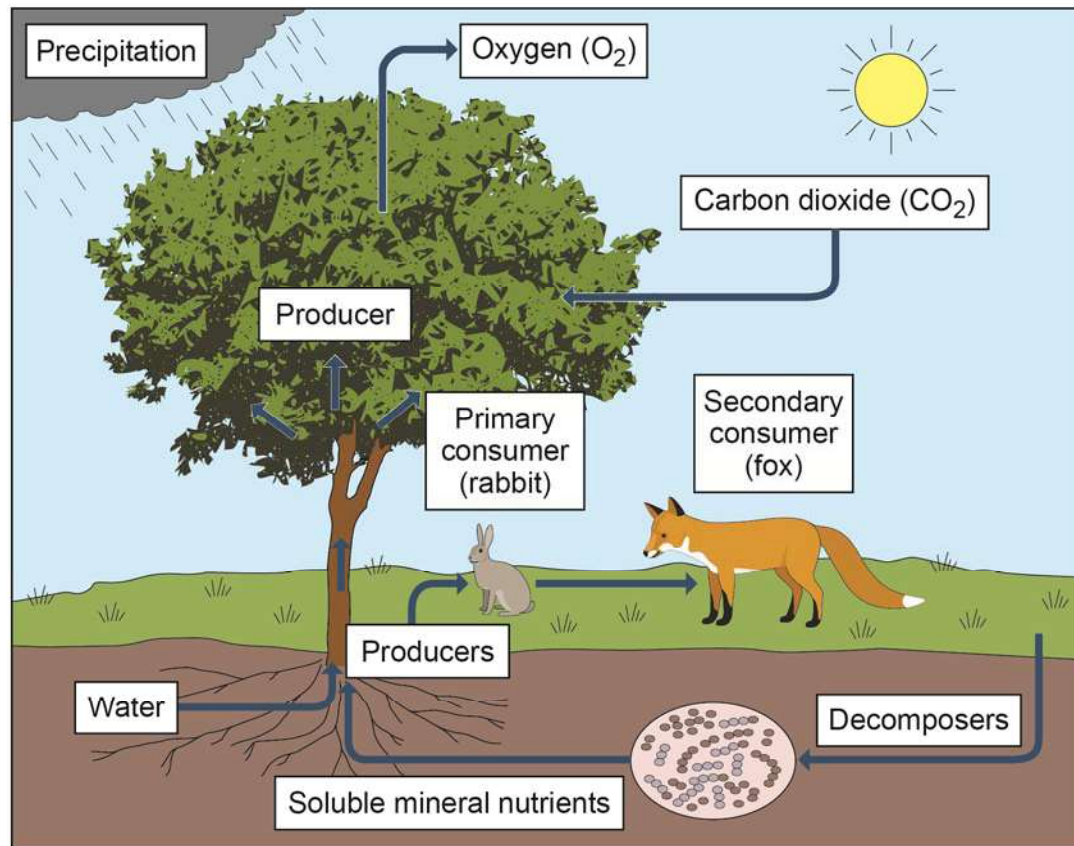
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Turn over ►

Study **Figure 9**, a diagram showing energy flows in an ecosystem in the UK.

**Figure 9**



**0 2 . 6** Describe the role of producers in an ecosystem.

**[1 mark]**

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**0 2 . 7** Give **one** reason why energy is lost at each level in a food chain.

**[1 mark]**

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**0 2 . 8** Using **Figure 9** and your own understanding, complete the following sentences.

**[2 marks]**

If a disease reduced the number of primary consumers, one effect on the food chain would be that

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Decomposers help to return nutrients to the soil by

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**Question 2 continues on the next page**

**Turn over ►**

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10

Tick the box indicating the environment chosen.

To what extent is your chosen environment at risk from human activity?

**[9 marks]**

[illegible]

**End of Section B**