

Past-paper walk-through

Habitat destruction ■ 20.2

eXercise

Questions in this set

- 0610/43 J25 Q6 ■ 13 marks

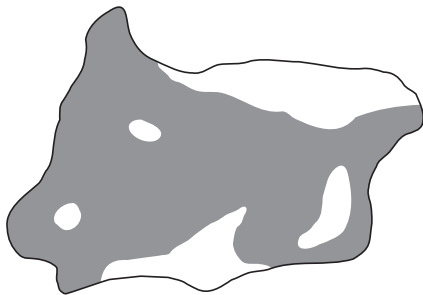
Reading the mark scheme

- **B1** a mark that stands on its own – the point is either made or not.
- **M1** a *method* mark: the right approach, even if the number is wrong.
- **A1** an *answer* mark, and it usually needs its M mark first.
- **C1** a working mark on the way to the answer.
- **//** separates answers the examiner accepts equally.
- **ecf** = error carried forward: a later part is marked on your own earlier answer.
- **owtte** = “or words to that effect” – the wording need not match.

Question 6

0610/43 J25 ■ Q6 ■ 13 marks

- 6 In Fig. 6.1, the diagrams of an island show the land covered by forest in 1982 and 2013.



1982

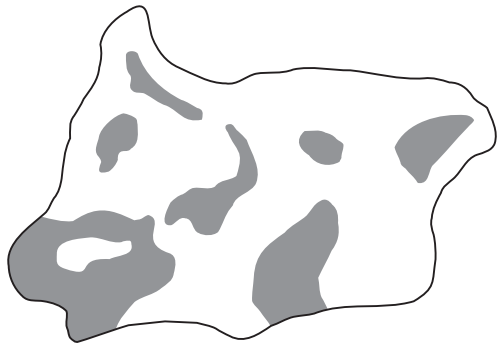
Key



land covered by forest

Question 6

....



Question 6

2013

Fig. 6.1

- (a) (i)** Describe the change in land covered by forest between 1982 and 2013 in Fig. 6.1.

Question 6

(ii) State **two** possible causes for the change in land covered by forest in Fig. 6.1.

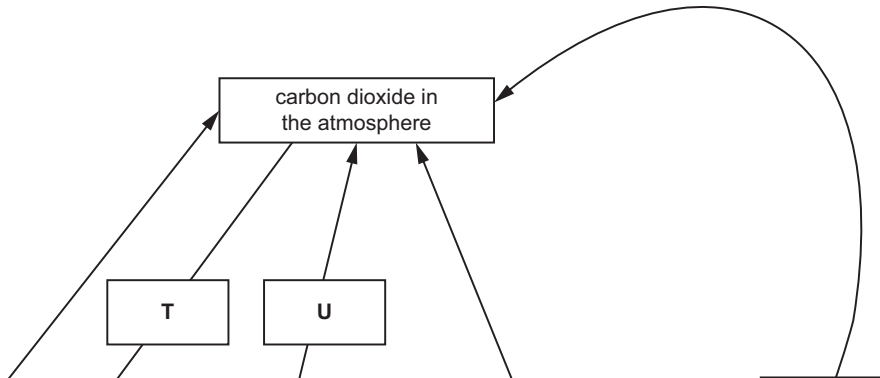
Question 6

Question 6

Question 6

[2]

(b) Fig. 6.2 is a diagram of the carbon cycle.



Question 6

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Question 6

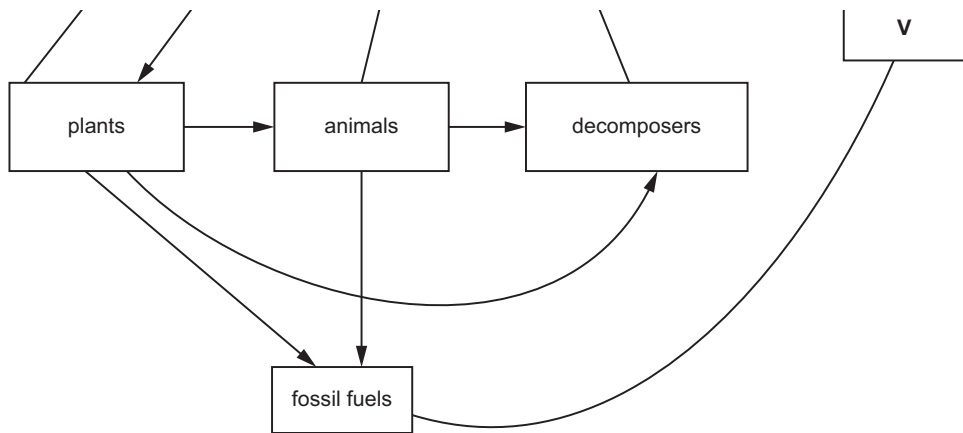


Fig. 6.2

Question 6

Figure 1

Question 6

State the names of the processes labelled **T**, **U** and **V** in Fig. 6.2.

Question 6

Question 6

Question 6

[3] _

(c) Deforestation is linked to an increase in global temperatures.

(i) Explain how deforestation can contribute to an increase in global temperatures.

Question 6

- (ii) Describe **other** undesirable effects of deforestation.

Question 6

[Total: 13]

Solution 6

(a)(i)

Mark scheme

- any two from:
- less (land) covered by forest ;
- more fragmented forest ;
- less forest around the coast / AW ;
- 2

Solution 6

(a)(ii) Mark scheme

- any two from:
- 1
- housing / AW ;
- 2
- agriculture / AW ;
- 3
- (logging), for timber / fuel / paper ;
- 4

Solution 6

- extraction of natural resources ;
- 5
- wildfires ;
- 6
- climate change ;
- 7
- disease / invasive species ;
- 2
- MP1 A urbanisation / industrialisation
- MP6 A global warming A drought

Solution 6

(b) Mark scheme

- T
- photosynthesis ;
- U
- (aerobic) respiration ;
- V
- combustion ;
- 3

Solution 6

(c)(i) Mark scheme

- any three from:
- 1
- decrease in photosynthesis leads to less carbon dioxide removed from
- atmosphere ;
- 2
- increase in decomposition of felled trees leads to more carbon dioxide
- added to the atmosphere ;
- 3

Solution 6

- increase in combustion of felled trees leads to more carbon dioxide
- added to the atmosphere ;
- 4
- carbon dioxide traps, infrared / long wavelength, radiation (from the
- ground) ;
- 5
- increase / enhanced, greenhouse effect ;
- 3
- 0610/43
- May/June 2025

Solution 6

- Guidance

Solution 6

(c)(ii) Mark scheme

- any three from:
- 1
- loss of habitat ;
- 2
- extinction of species ;
- 3
- reducing biodiversity ;
- 4

Solution 6

- disrupt cycling of nutrients ;
- 5
- disrupt, energy flow / food web / food chain ;
- 6
- loss of possible, fuels / crop plants / drugs / genes ;
- 7
- soil erosion / infertile land ;
- 8
- (more run off) flooding ;
- 9

Solution 6

- (fewer trees means) less transpiration / less water vapour in the
- atmosphere ;
- 10 so less rainfall / droughts / desertification ;
- 11 AVP ;
- 3
- e.g. loss of, tourism / areas of natural
- beauty