Oxford Cambridge and RSA

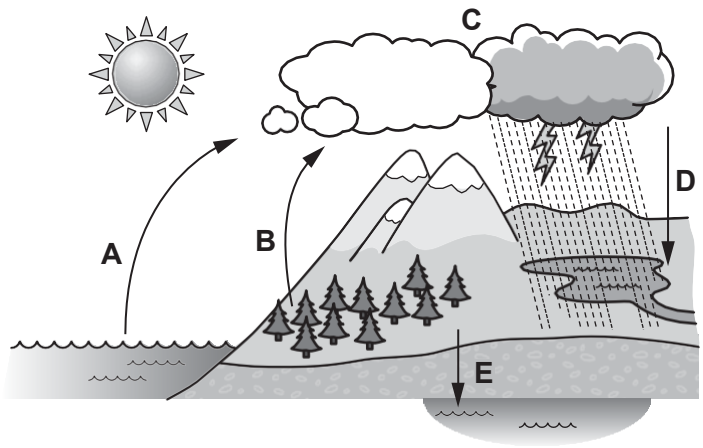
GCSE Biology B (Twenty First Century Science)

J257/01 Breadth in Biology (Foundation)

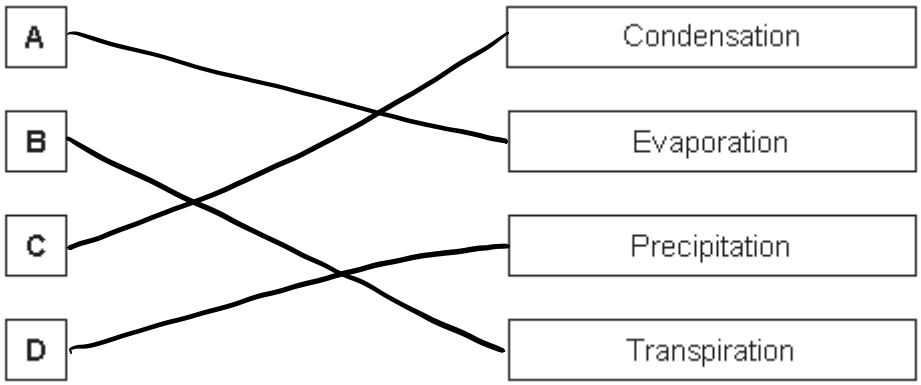
Question Set 17

Multiple Choice Questions

1. (a) The diagram below shows the water cycle.



Draw a line from **A**, **B**, **C** and **D** to the correct name for the process shown in the diagram.



[4]

(b) Deforestation is happening to rainforests in Malaysia and Indonesia.

Deforestation can affect the water cycle.

Put a (ring) around the word that completes the sentence describing the effect of deforestationon processes **B** and **E**.

Deforestation will **decrease / increase / have no effect** on process **B**.

Deforestation will **decrease / increase / have no effect** on process **E**.

[2]

(c) (i) The rainforests in Malaysia and Indonesia are being replaced with palm oil trees.

This will have an effect on the biodiversity of the area.

Choose **one** word from the list to complete the sentence.

animals

microorganisms

organisms

plants

Biodiversity can be defined as the amount of living ….organisms…… in a particular area.

[1]

(c) (ii) Biodiversity is important for economic, ethical and environmental reasons.

For each statement in the table, decide if it is an example of an economic, ethical orenvironmental reason.

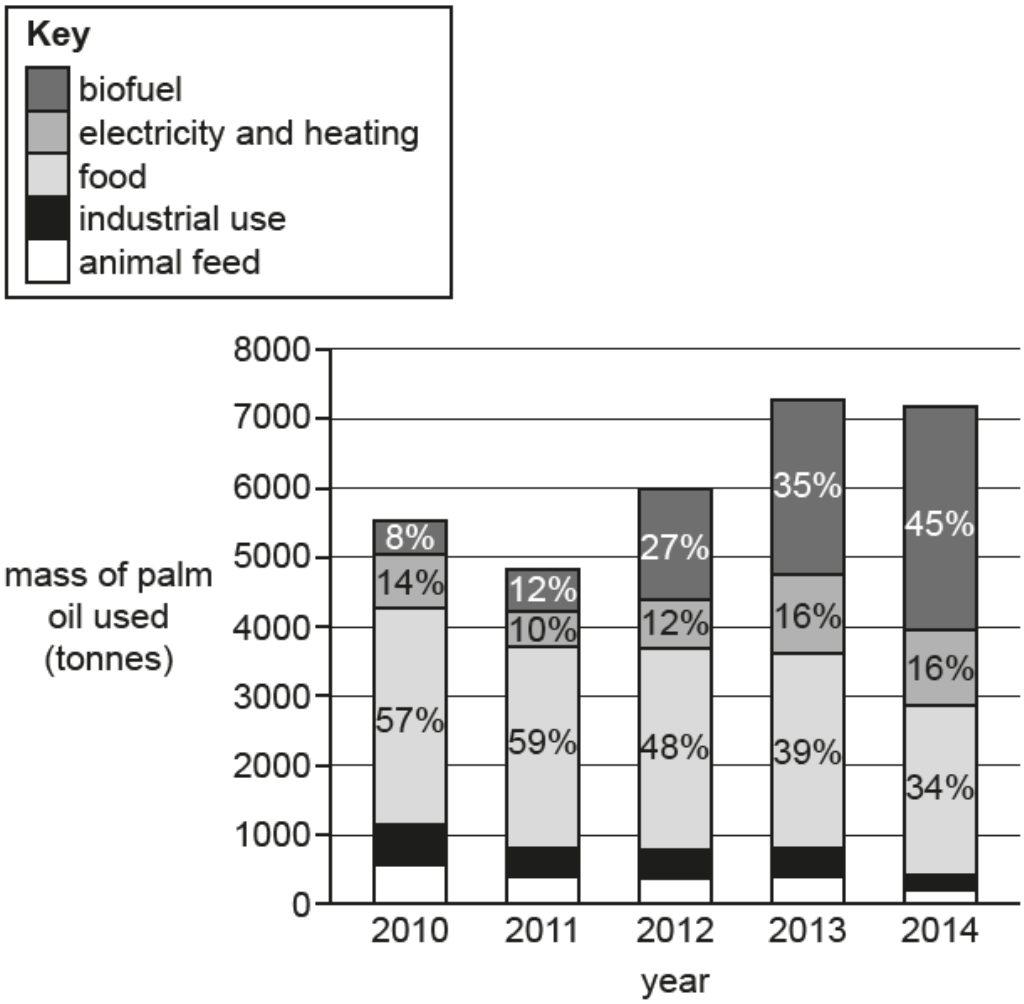
Tick (✓) **one** box for each statement.

Statement	**Economic**	**Ethical**	**Environmental**
All living things have a right to live.		✓	
Species provide us with useful products.	✓		
Removing one species can affect a whole ecosystem.			✓

[1]

(d) The palm oil taken from the trees is used in different ways.

The bar chart shows changes in the uses of palm oil between 2010 and 2014

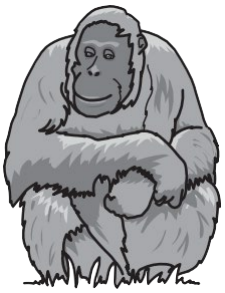


Which use of palm oil increased the most from 2010 to 2014?

Use data from the graph to support your answer. **[2]**

- biofuel
- greatest numerical increase : 37% (45% - 8%)

(e) Orangutans live in the rainforests of Malaysia.



Orangutan

A century ago there were 230 000 orangutans.

The table shows the estimated number of three species of orangutans which remain today.

Species of orangutan	Number
Bornean	104 700
Sumatran	7500
Tapanuli	800

(i) Calculate the percentage (%) of orangutans which remain today.

Give your answer to **2** significant figures.

$\frac{104700 + 7500 + 800}{230000} \times 100 = 49\%$

Percentage = 49 % **[3]**

(ii) The number of orangutans living in the rainforests of Malaysia is only an estimate.

Explain why.

not all orangutans counted as some may live where unknown / hiding **[1]**

Total Marks for Question Set 17: 14

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