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International Education

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CANDIDATE NAME

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2263931317

ENVIRONMENTAL MANAGEMENT **0680/13**

Paper 1 Theory **May/June 2026**

1 hour 45 minutes

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen. Do **not** use correction fluid or tape.
- Do **not** write on any bar codes.
- You may use a calculator.
- You should show all your working and use appropriate units.

INFORMATION

- The total mark for this paper is 80.
- The number of marks for each question or part question is shown in brackets [ ].

This document has **20** pages.

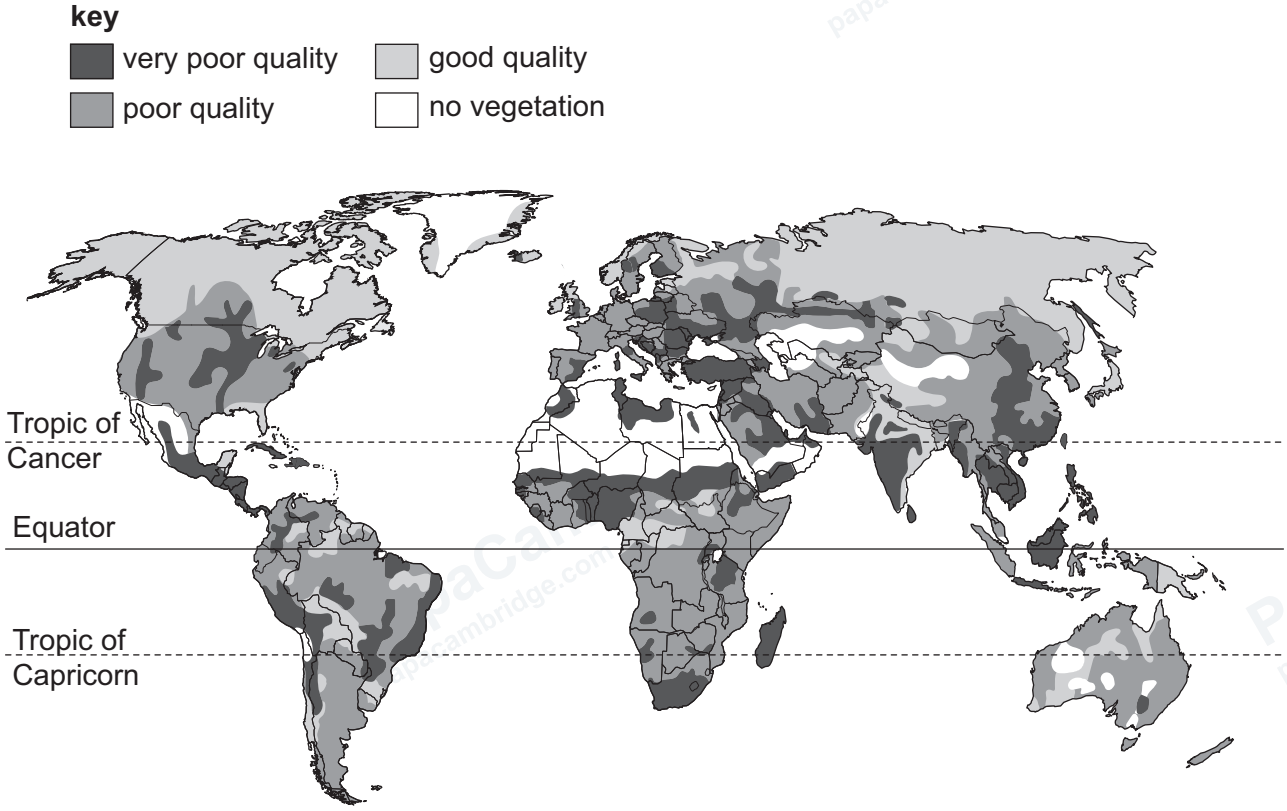
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Section A

1 **(a)** The map shows the global distribution of soil quality.



Describe the distribution of soil with very poor quality.

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..... [2]

(b) Explain how soil erosion causes famine.

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..... [3]

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(c) The photograph shows strawberry plants in a greenhouse that uses hydroponics.



(i) State **two** benefits of growing plants in a greenhouse.

1 .....

.....

2 .....

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[2]

(ii) Describe what is meant by hydroponics.

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..... [2]

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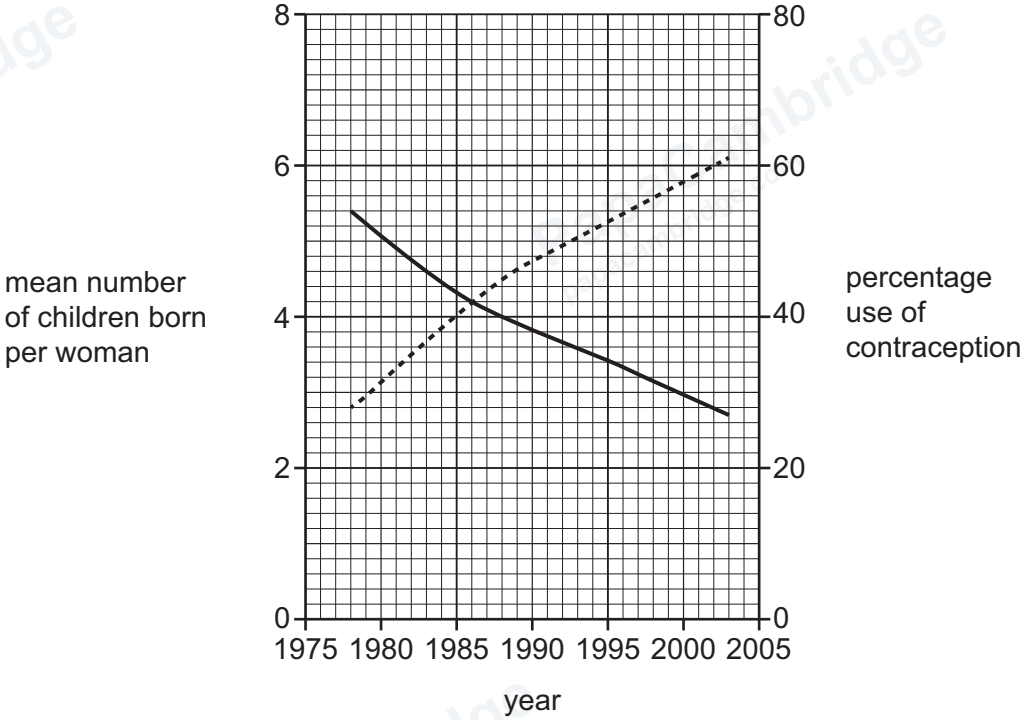
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2 The graph shows the mean number of children born per woman and the percentage use of contraception in El Salvador, Central America from 1978 to 2003.

key

— mean number of children born per woman

- - - percentage use of contraception



(a) Calculate the difference in the mean number of children born per woman in 1978 and 2003.

1978 .....

2003 .....

difference .....

[2]

(b) Describe the relationship between the mean number of children born per woman and the percentage use of contraception in El Salvador.

.....

..... [1]

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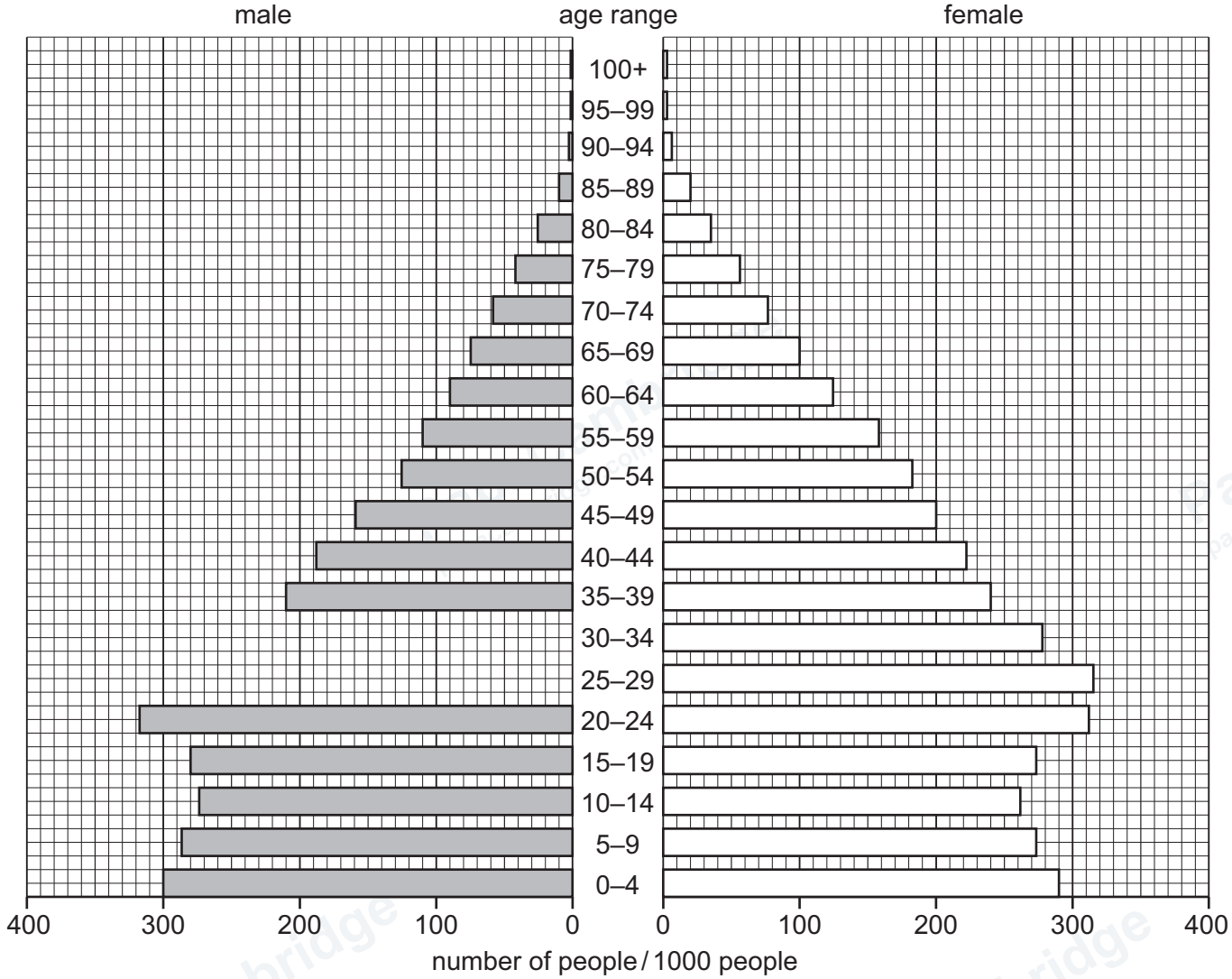
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(c) The table shows the number of males in two age ranges in El Salvador in 2021.

age range	number of males
25–29	310 000
30–34	270 000

Complete the population pyramid for males in El Salvador.



[2]

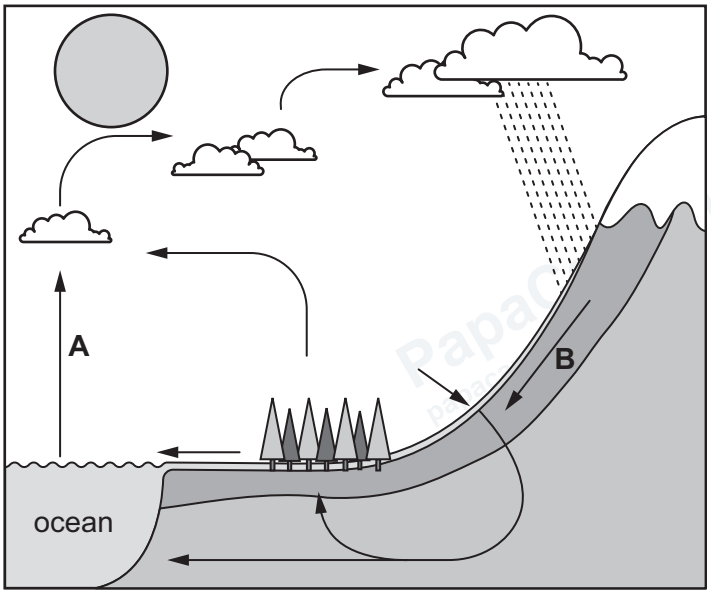
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3 **(a)** The diagram shows part of the water cycle.

key
→ process



State the names of process **A** and process **B**.

A .....

B .....
[2]

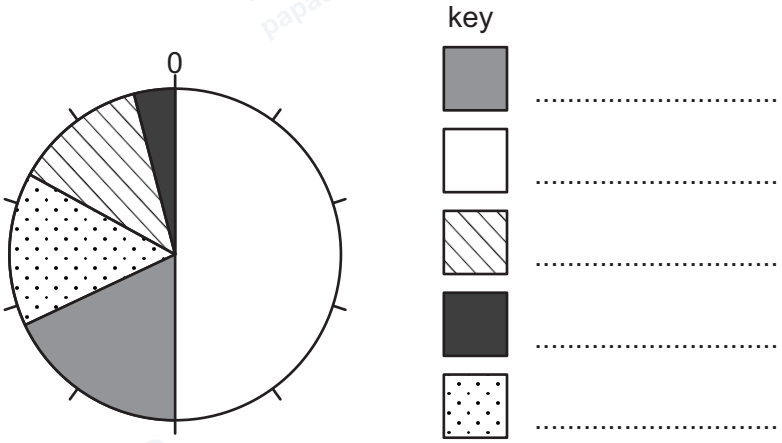
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(b) A student draws a pie chart for sources of fresh water in an area using this data.

sources of fresh water	percentage
lakes	
soil	18
atmosphere	15
swamps	13
rivers	4



(i) Determine the percentage of fresh water that is lakes.

.....% [1]

(ii) Complete the key for the pie chart. [1]

(iii) The student has **not** included all sources of fresh water in the pie chart.

State **two** sources missing from the pie chart.

1 .....

2 .....

[2]

[Total: 6]

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Section B

4 Singapore is an island with 228 km of coastline.

In June 2024, an oil spill at sea impacted Singapore's beaches.

The photograph shows workers cleaning oil from a beach.



(a) Booms were used to reduce the impact of the oil spill on Singapore's beaches.

Explain how a boom reduces the impact of oil spills.

.....

.....

.....

..... [2]

(b) Suggest **two** reasons why oil still reached some of Singapore's beaches.

1 .....

.....

2 .....

.....

[2]

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(c) Suggest **one** reason why the workers are wearing protective clothing.

..... [1]

(d) Suggest **two** causes of an oil spill at sea.

1 .....

2 .....
[2]

(e) State **two** strategies for reducing the impact of oil spills at sea, other than using booms.

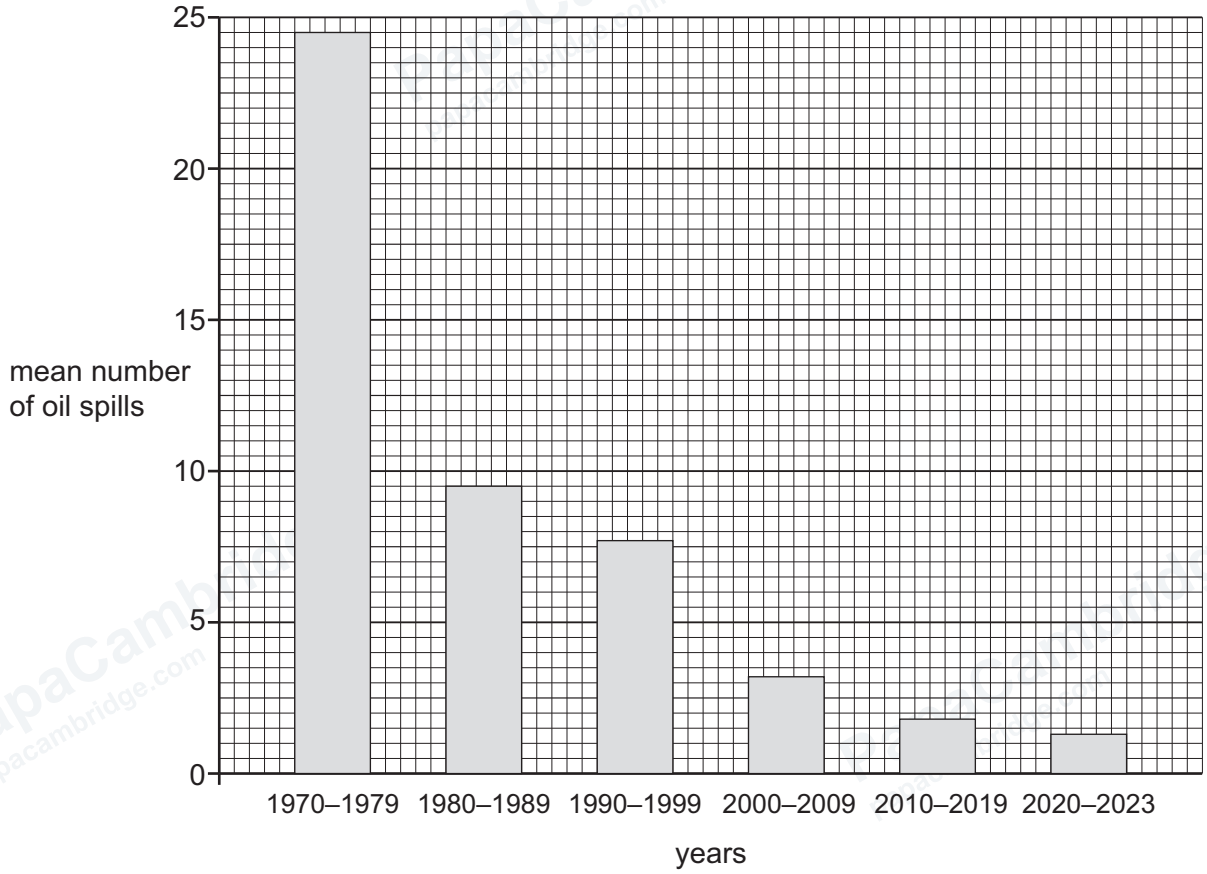
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2 .....
[2]

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(f) The bar chart shows data for the mean number of oil spills greater than 630 tonnes from 1970 to 2023.



(i) Calculate the percentage difference between oil spills in 1970–1979 and 1980–1989.

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

..... [2]

(ii) A student concludes strategies to reduce all oil spills have been successful.

Use the data to suggest **one** piece of evidence that supports this conclusion and **one** piece of evidence that does **not** support this conclusion

supports conclusion .....

.....

does **not** support conclusion .....

.....

[2]

[Total: 13]

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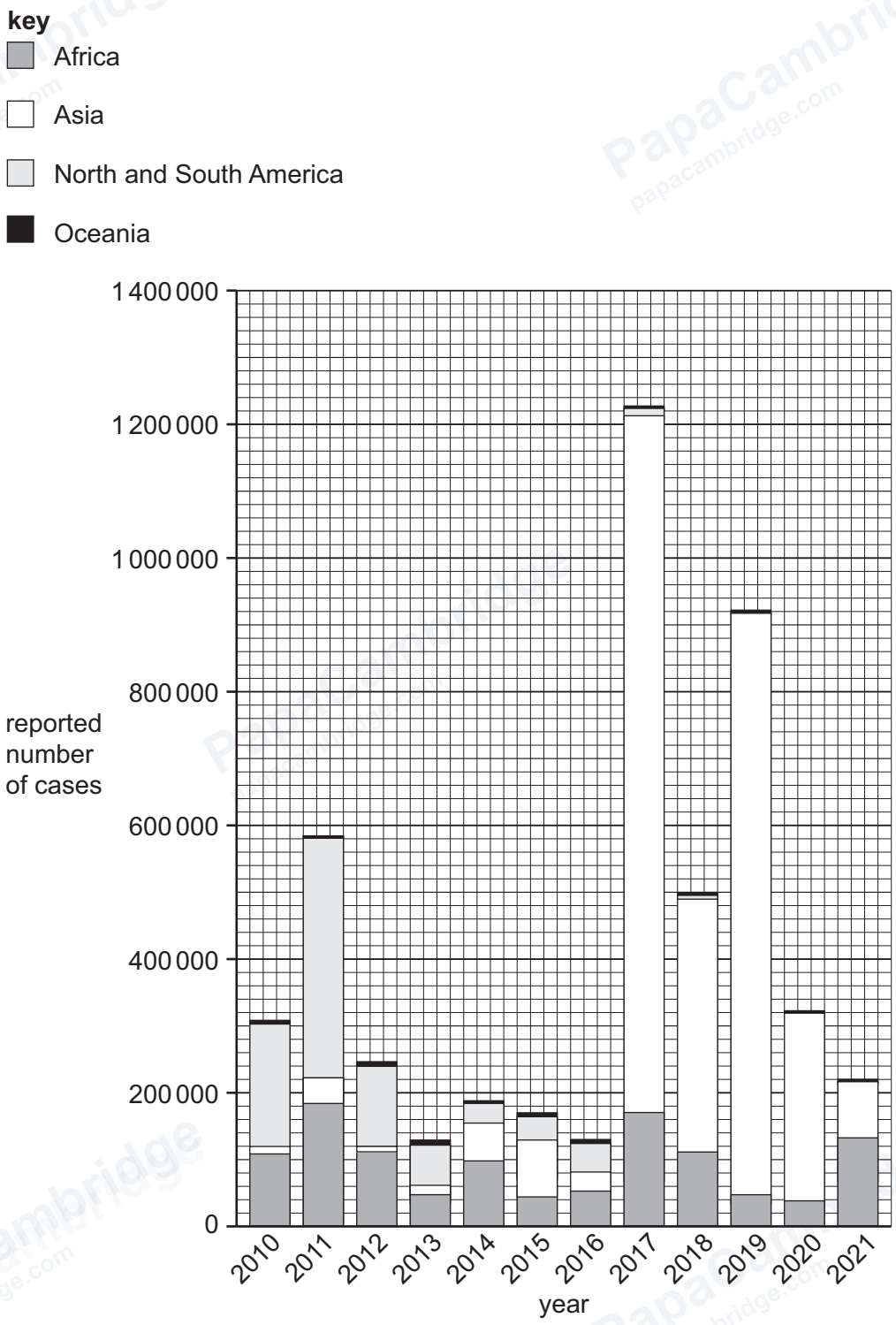
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5 **(a)** The divided bar chart shows reported cases of cholera for 4 regions.



(i) Identify which region had the lowest number of reported cases of cholera in one year.

..... [1]

(ii) Identify which region had the greatest number of reported cases of cholera over the 12-year period.

..... [1]

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(iii) Determine the number of reported cases of cholera for North and South America in 2011.

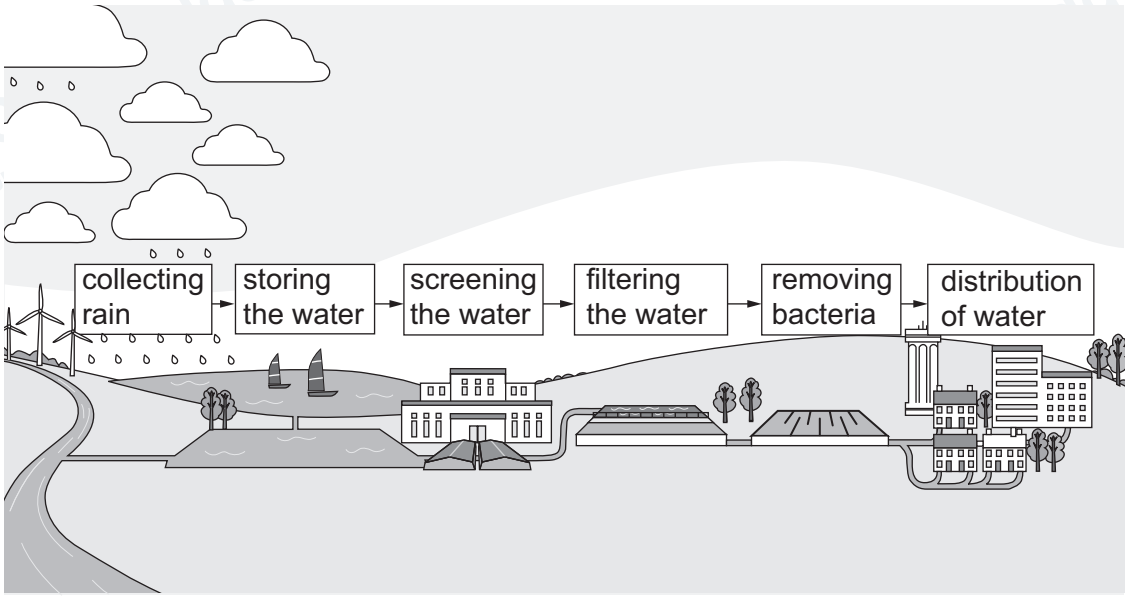
..... [1]

(iv) Suggest **one** reason why some cholera cases are **not** reported.

..... [1]

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(b) The diagram shows a water treatment process in the UK.



(i) Suggest **one** method of storing water in the water treatment process.

..... [1]

(ii) Suggest **one** risk to human health of storing water, other than the risk of cholera.

..... [1]

(iii) Some of the water storage locations in the UK hold enough water to last for 90 days.

Suggest the benefit of this.

.....

..... [1]

(iv) Suggest why water is filtered in the water treatment process.

.....

..... [1]

(v) Suggest how bacteria are killed in the water treatment process.

..... [1]

(vi) Suggest **two** reasons why the distribution of water to everyone in a country is more of a challenge for LEDCs compared to MEDCs.

1 .....

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2 .....

..... [2]

[Total: 11]

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6 **(a)** The photograph shows an area of deforested land.



Suggest the impacts of the deforestation shown in the photograph.

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..... [5]

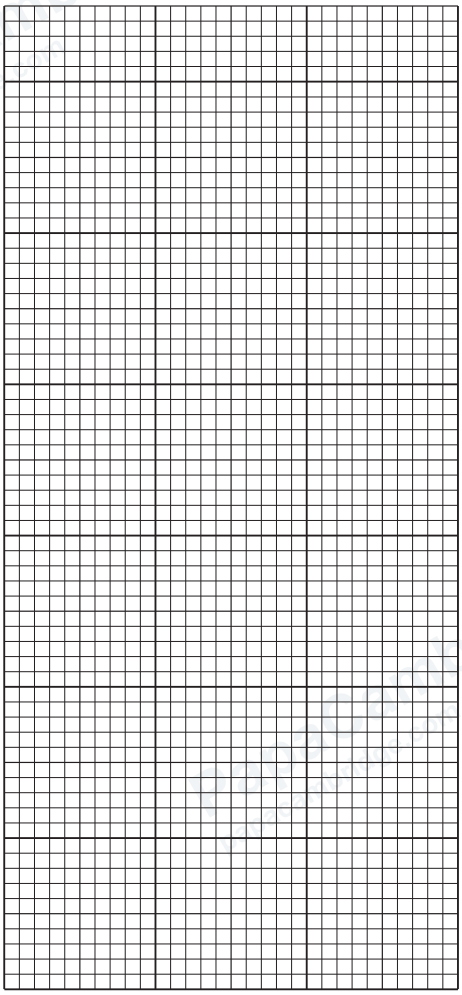
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(b) The table shows data for deforestation in the Amazon.

year	area of forest lost /million hectares
2019	1.9
2020	2.8
2021	1.7
2022	2.1
2023	0.9

Plot the data as a line graph.
Join each point with a straight line.



[4]

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(c) State **three** causes of deforestation.

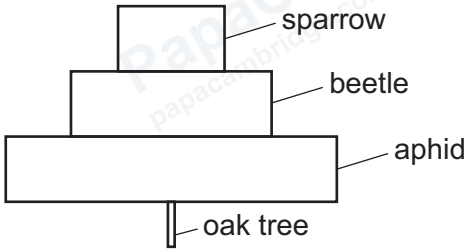
1 .....

2 .....

3 .....

[3]

(d) The diagram shows a pyramid of numbers.



Explain what is shown by this pyramid of numbers.

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..... [4]

(e) State **three** abiotic components of a forest ecosystem.

1 .....

2 .....

3 .....

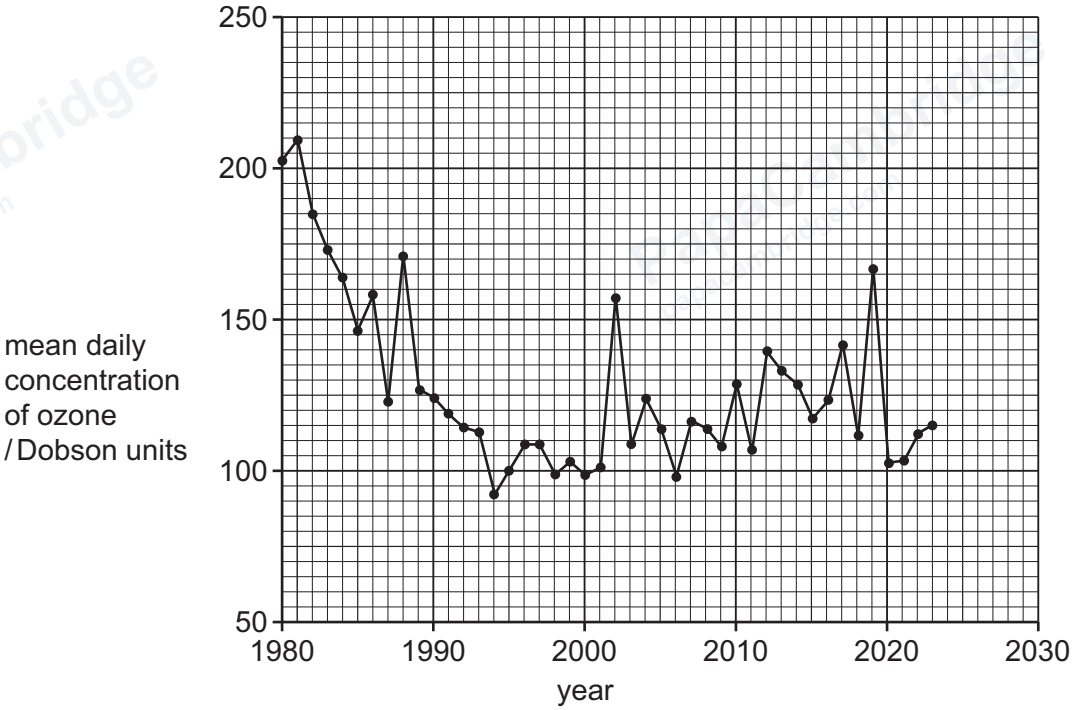
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7 **(a)** The graph shows the mean daily concentration of ozone in the stratosphere from 1980 to 2023.



Describe the trend in mean daily concentration of ozone shown in the graph.

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..... [2]

(b) State **one** cause of ozone depletion.

..... [1]

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(c) Describe the impact of ozone depletion on the environment and on human health.

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..... [4]

(d) Explain why international agreements were needed to reduce the impact of ozone depletion.

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..... [2]

(e) Emissions of carbon dioxide cause global warming. One strategy to reduce the impact of carbon dioxide emissions is taxation.

Suggest **two** reasons why some people do **not** agree with taxation to reduce the impact of carbon dioxide emissions.

1 .....

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2 .....

..... [2]

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(f) Acid rain is an atmospheric pollutant.

A student makes this statement about acid rain.

> Acid rain will **not** be a problem when all cars are powered by electricity.

To what extent do you agree with this statement? Give reasons for your answer.

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..... [6]

[Total: 17]

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