

Write your name here

Surname

Other names

Pearson
Edexcel GCSE

Centre Number

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Candidate Number

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Geography B

Unit 1: Dynamic Planet

Foundation Tier

Tuesday 19 May 2015 – Afternoon
Time: 1 hour 15 minutes

Paper Reference

5GB1F/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- In Section A, answer **all** questions.
- In Section B, answer **either** question 5 **or** 6.
- In Section C, answer **either** question 7 **or** 8.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 78.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
– *you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.*
- The marks available for spelling, punctuation and grammar are clearly indicated.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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PEARSON

SECTION A: INTRODUCTION TO THE DYNAMIC PLANET

Answer ALL questions in this section.

Topic 1: Restless Earth

1 Figure 1 shows a plate boundary.

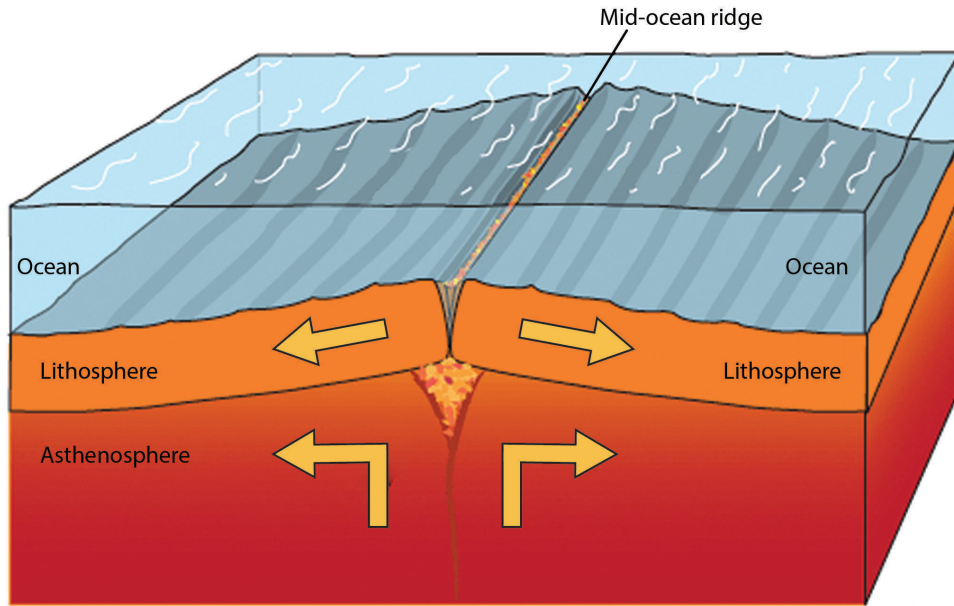


Figure 1

(a) Study Figure 1.

(i) Identify the type of plate boundary shown in Figure 1.

(1)

- A conservative
- B constructive
- C destructive
- D continental

(ii) Which **one** of the following best describes the lava erupted from volcanoes on plate boundaries such as the one shown?

(1)

- A It erupts violently.
- B It has a high gas content.
- C It is fast flowing.
- D It is viscous (thick).



(b) Give **two** likely **immediate** responses to an earthquake.

(2)

1

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(c) For an earthquake in a named location, describe the **primary** impacts on property and people.

(4)

Named location:

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(d) Describe the layered structure of the Earth's interior.

(4)

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(Total for Question 1 = 12 marks)



Topic 2: Changing Climate

2 Figure 2 shows the global pattern of carbon dioxide (CO₂) emissions per person in 2010.

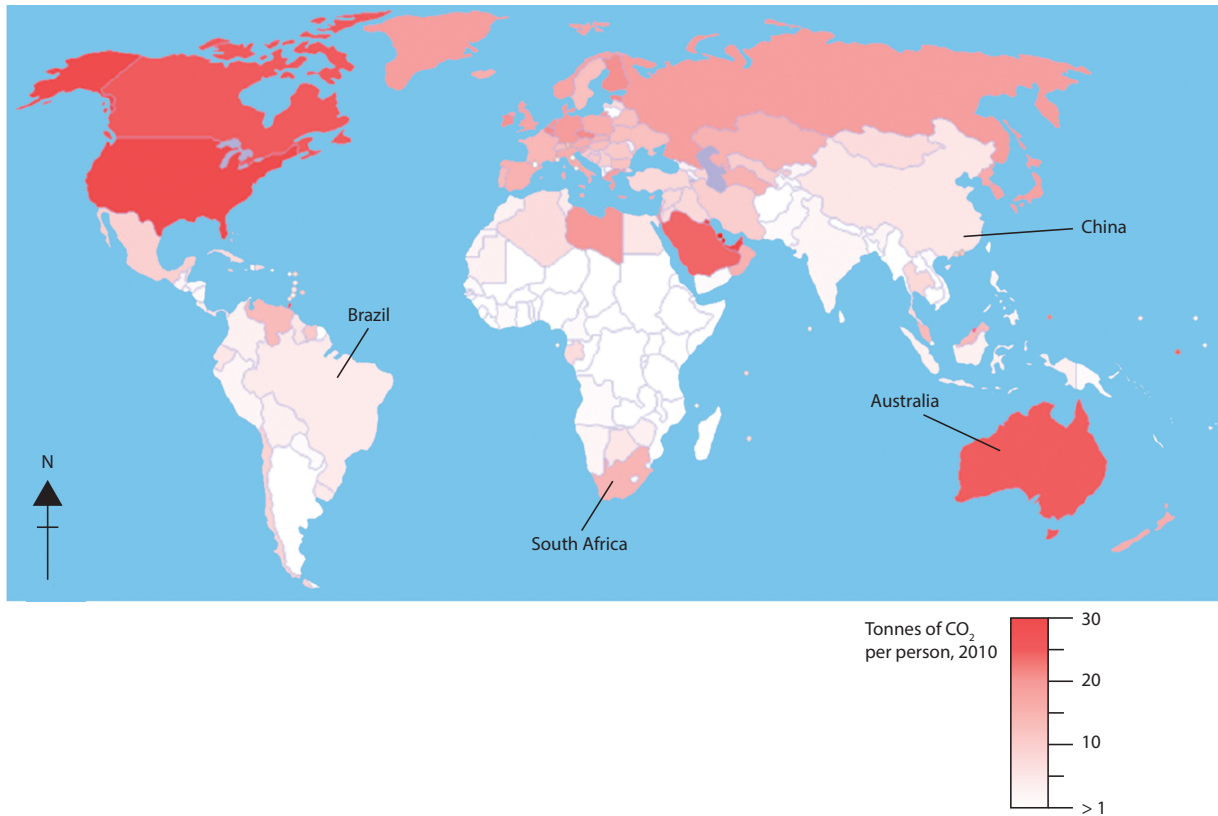


Figure 2

(a) Study Figure 2.

(i) Which **one** of the following countries has the highest carbon dioxide emissions per person?

(1)

- A Australia
- B Brazil
- C China
- D South Africa

(ii) Which **one** of the following best explains the high carbon emissions in the USA?

(1)

- A The use of renewable energy.
- B Industry is more energy efficient.
- C Many well insulated homes.
- D A large number of cars.



(b) Outline **one** way that volcanic eruptions can lead to climate change.

(2)

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(c) Describe the pattern of temperature and rainfall in the UK.

(4)

Temperature

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Rainfall

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(d) Describe the possible **environmental** impacts of future climate change in the UK.

(4)

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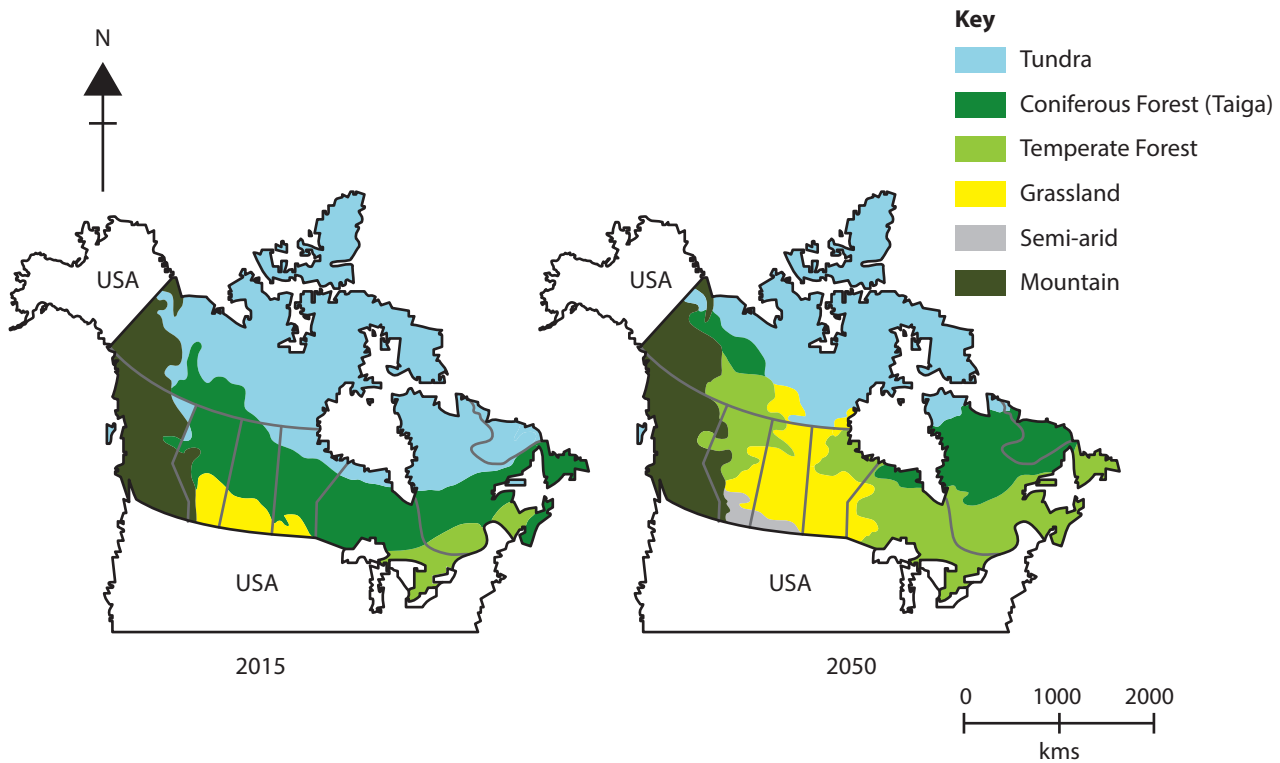
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(Total for Question 2 = 12 marks)



Topic 3: Battle for the Biosphere

3 Figure 3 shows the predicted impact of a change in climate on the location of Canadian biomes.



(Source: Changes in Forest and Grasslands Boundaries, Atmospheric Environment Service.
© Environment Canada, 1991)

Figure 3

(a) Study Figure 3.

(i) Which **one** of the following best describes the location of tundra in 2015?

(1)

- A In the north.
- B On the west coast.
- C Along the border with the USA.
- D On the east coast.

(ii) Which **one** of the following best explains the change in the area of tundra by 2050?

(1)

- A Deforestation.
- B Rising global temperatures.
- C Falling sea level.
- D Falling global temperatures.



(b) Outline **one** way in which the biosphere maintains soil health.

(2)

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(c) Describe **one** local/national and **one** global approach used to manage the biosphere.

(4)

Local or national approach

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Global approach

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(d) Explain how human activity is causing the destruction of tropical rainforests.

(4)

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(Total for Question 3 = 12 marks)



Topic 4: Water World

4 Figure 4 shows the causes of river pollution in the USA.

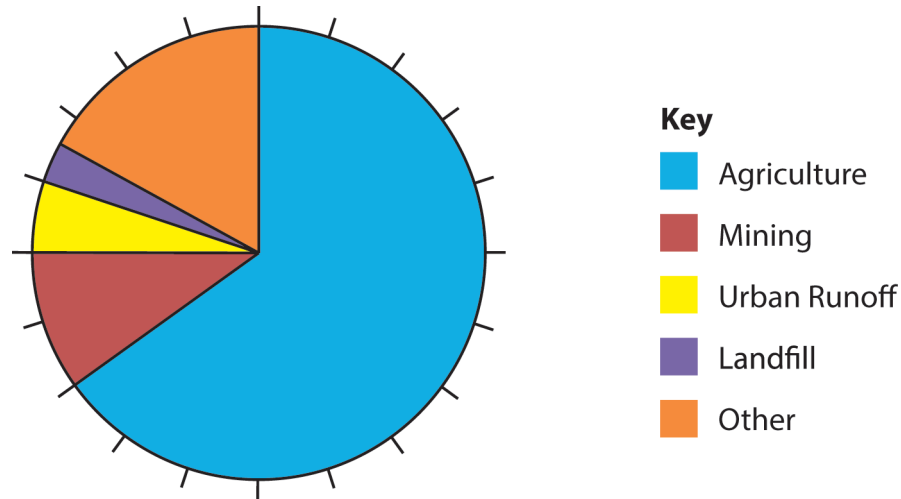


Figure 4

(a) Study Figure 4.

(i) What percentage does mining contribute to river pollution in the USA?

(1)

- A 5%
- B 10%
- C 20%
- D 65%

(ii) Which **one** of the following best explains the size of agriculture's contribution to river pollution in the USA?

(1)

- A The frequent use of irrigation.
- B Agriculture has become more mechanised.
- C The widespread use of fertilisers and pesticides.
- D The average field size has increased.



(b) Outline **one** possible impact on people of a limited water supply.

(2)

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(c) Describe **two** human activities that disrupt water supplies.

(4)

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(d) Small-scale water management schemes often use intermediate technology.

Using a named example, describe **two** benefits of using intermediate technology.

(4)

Named example:

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(Total for Question 4 = 12 marks)

TOTAL FOR SECTION A = 48 MARKS



SECTION B: SMALL-SCALE DYNAMIC PLANET

Answer ONE question in this section.

Topic 5: Coastal Change and Conflict

If you answer Question 5 put a cross in the box .

Spelling, punctuation and grammar will be assessed in 5*(d).

5 Figure 5 shows a stretch of coastline.

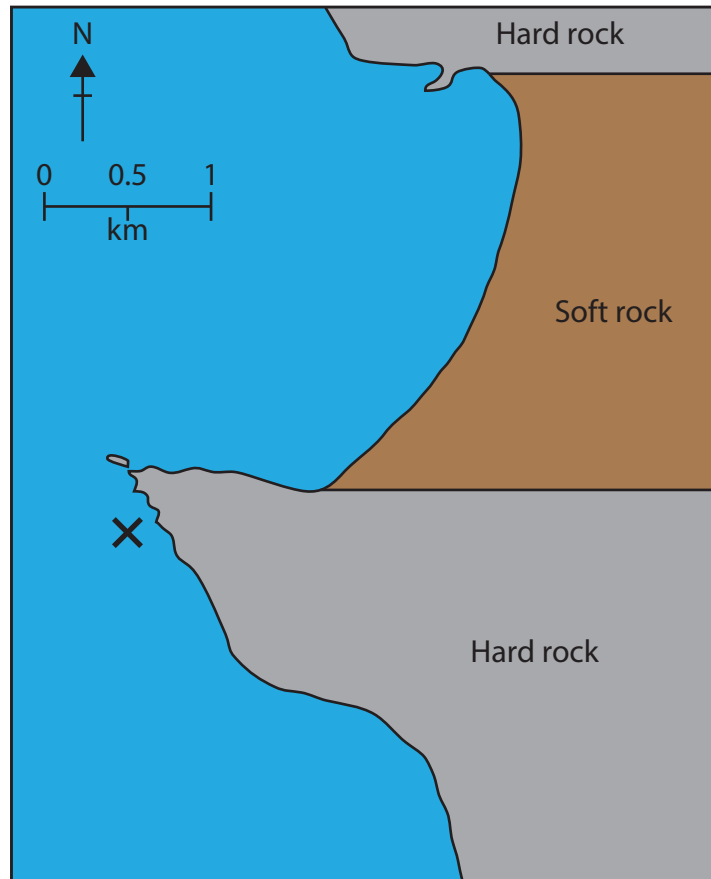


Figure 5

(a) Study Figure 5.

(i) Which **one** of the following best describes this stretch of coastline?

(1)

- A destructive
- B concordant
- C constructive
- D discordant



(ii) Which **one** of the following landforms is most likely to be found at X?

(1)

- A** stack
- B** spit
- C** beach
- D** dune

(b) Outline **one** way in which more storms could affect marine erosion.

(2)

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(c) Give **two** benefits of using hard engineering to manage a coastline.

(2)

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***(d)** For a named coastline, explain the impact of coastal retreat on local communities. **(6)**

Named coastline:

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(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 5 = 15 marks)



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QUESTION 6 BEGINS ON THE NEXT PAGE

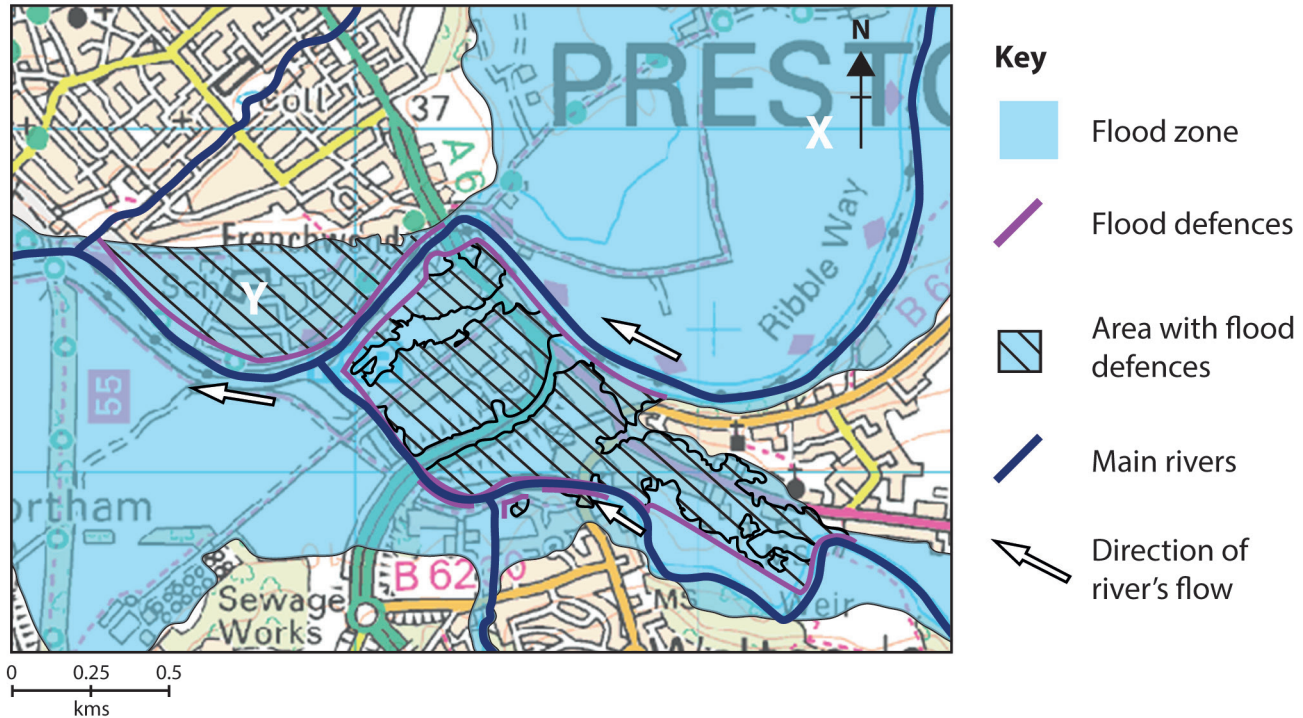


Topic 6: River Processes and Pressures

If you answer Question 6 put a cross in the box .

Spelling, punctuation and grammar will be assessed in 6*(d).

6 Figure 6 shows an Environment Agency flood map for Preston.



(Source: © Environment Agency 2014. © Ordnance Survey Crown copyright)

Figure 6

(a) Study Figure 6.

(i) Which **one** of the following best explains why X is more likely to flood than Y? (1)

- A** There are no flood defences at X.
- B** Several rivers join at X.
- C** The floodplain has been built on at X.
- D** It rains more heavily at Y.

(ii) Which **one** of the following best explains why an area is protected from flooding? (1)

- A** Only a few people live there.
- B** Few transport links.
- C** High land value.
- D** Low land value.



(b) Outline **one** slope process.

(2)

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(c) Give **two** changes that occur along a river's course.

(2)

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* (d) For a named river, explain the impact of flooding on local communities.

(6)

Named river:

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(Total for spelling, punctuation and grammar = 3 marks)
(Total for Question 6 = 15 marks)

TOTAL FOR SECTION B = 15 MARKS



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QUESTION 7 BEGINS ON THE NEXT PAGE



SECTION C: LARGE-SCALE DYNAMIC PLANET

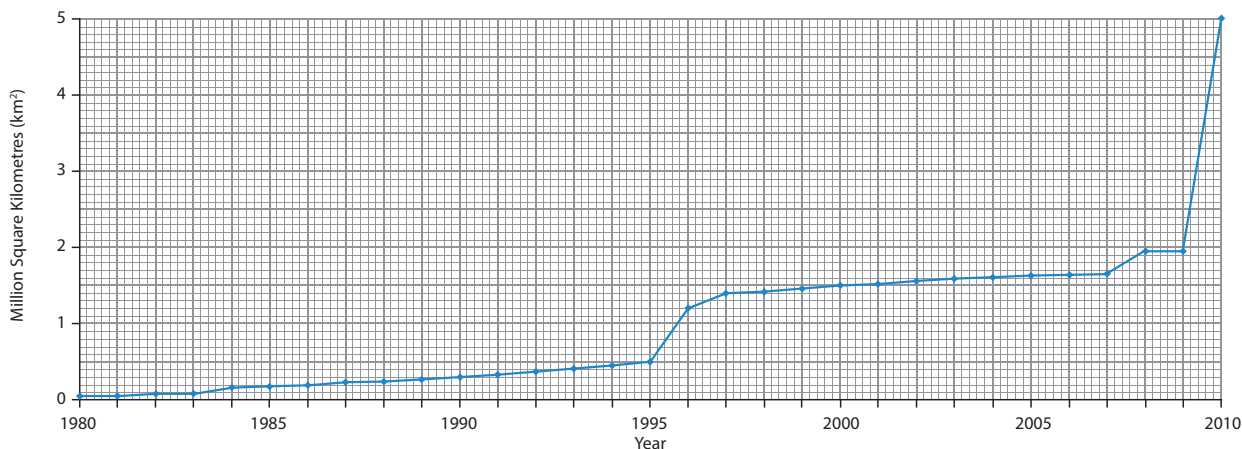
Answer ONE question in this section.

Topic 7: Oceans on the Edge

If you answer Question 7 put a cross in the box .

Spelling, punctuation and grammar will be assessed in 7*(d).

7 Figure 7 shows the total area of marine reserves in UK waters from 1980 to 2010.



(Source of data: JNCC)

Figure 7

(a) Study Figure 7.

(i) Which **one** of the following statements is correct?

The total area of UK marine reserves:

(1)

- A declined between 1980 and 2010.
- B grew fastest between 2009 and 2010.
- C stayed the same between 1985 and 1990.
- D grew slowly between 1995 and 1996.

(ii) What was the total area of marine reserves in 2010?

(1)

- A 1.9 million km²
- B 3 million km²
- C 2.8 million km²
- D 5 million km²



(b) Give **two** threats to marine ecosystems.

(2)

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(c) Outline **one** reason for the decline in **either** coral reefs **or** mangrove swamps over the past 50 years.

(2)

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***(d)** Using examples, explain how marine ecosystems can be managed sustainably.

(6)

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(Total for spelling, punctuation and grammar = 3 marks)

(Total for Question 7 = 15 marks)



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QUESTION 8 BEGINS ON THE NEXT PAGE



Topic 8: Extreme Environments

If you answer Question 8 put a cross in the box .

Spelling, punctuation and grammar will be assessed in 8*(d).

8 Figure 8 shows the mean monthly maximum temperature in Western Australia.

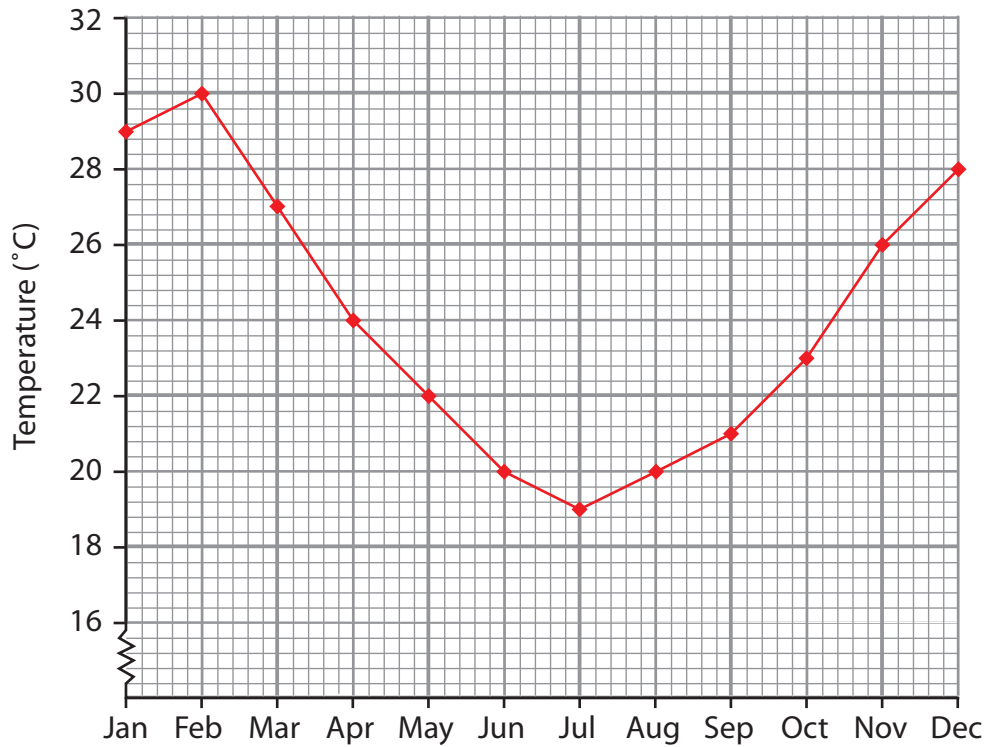


Figure 8

(a) Study Figure 8.

(i) Which **one** of the following statements is correct?

(1)

- A** July is the hottest month.
- B** The temperature stays the same between May and September.
- C** The temperature increases from July to February.
- D** The coldest month is December.

(ii) What is the mean maximum temperature in September?

(1)

- A** 21°C
- B** 19°C
- C** 25°C
- D** 30°C



(b) Give **two** local actions that can make communities in extreme environments more sustainable.

(2)

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(c) Outline how out-migration is threatening communities in extreme environments.

(2)

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