

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

Higher Tier

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

Paper Reference

5GB1H/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.

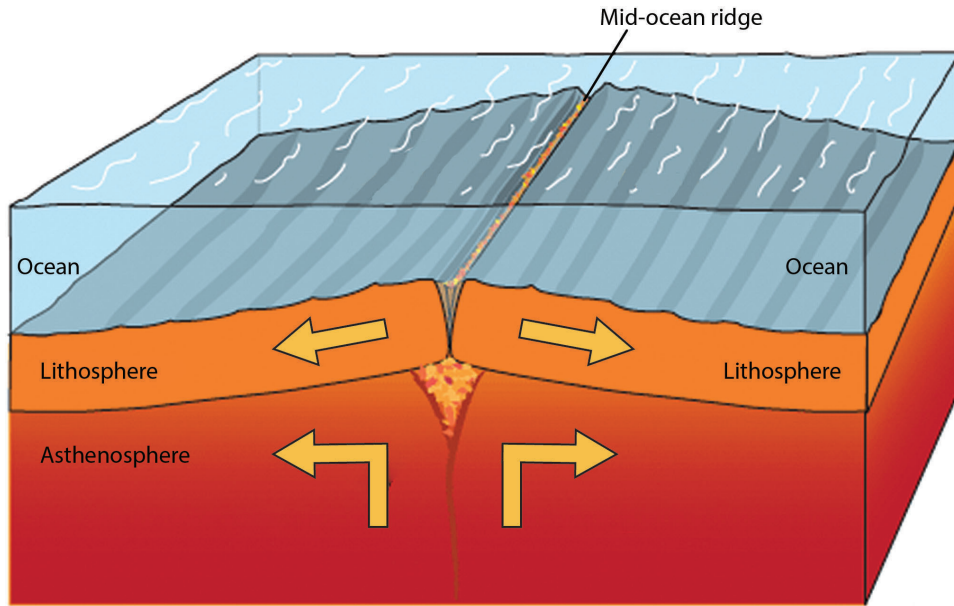


Figure 1

(a) Study Figure 1.

Outline why shield volcanoes form on this type of plate boundary.

(2)

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

(4)

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*(c) Compare the **primary** impacts of earthquakes in two named locations.

(6)

Named location 1:

Named location 2:

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(Total for Question 1 = 12 marks)



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QUESTION 2 BEGINS ON THE NEXT PAGE.



Topic 2: Changing Climate

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

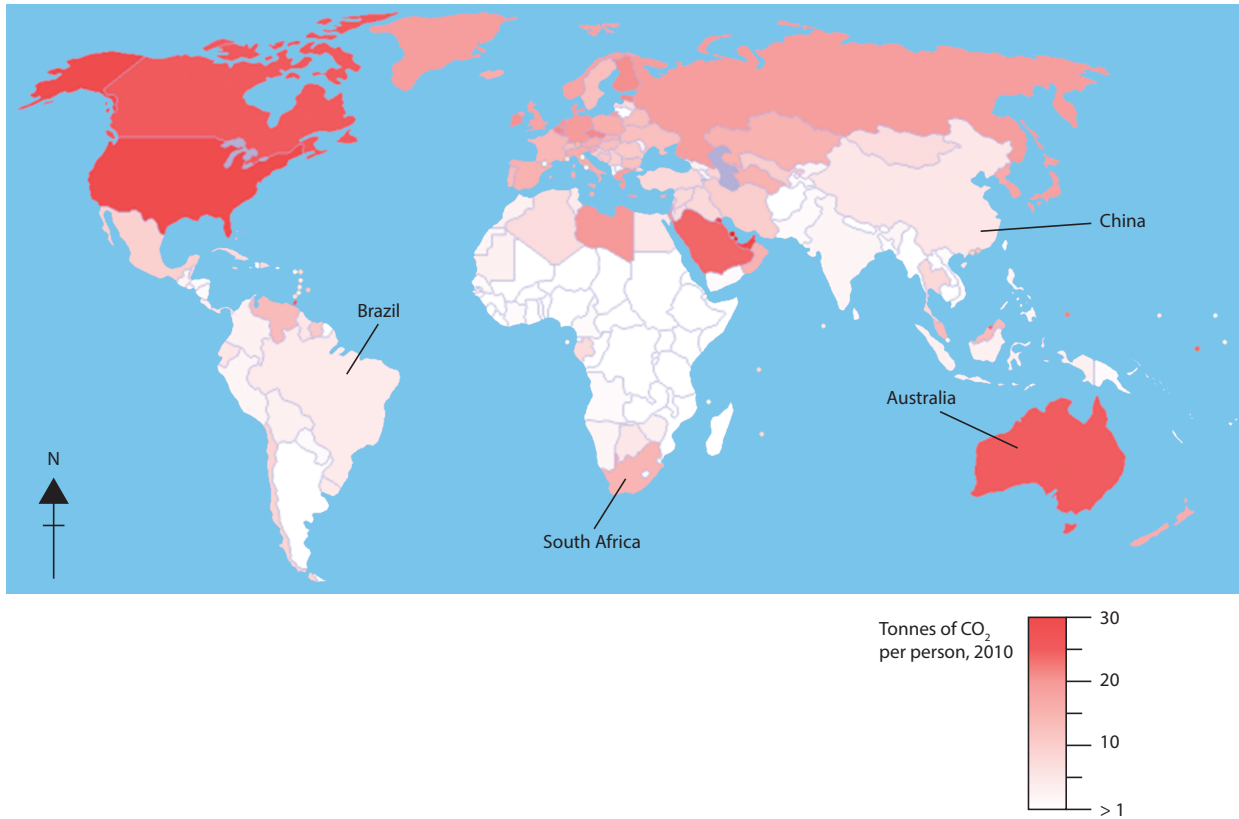


Figure 2

- (a) Study Figure 2.

Describe the difference in CO₂ emissions per person in 2010 between the northern and southern hemispheres.

(2)

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

(4)

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* (c) Explain the possible **environmental** impacts of future climate change in the UK.

(6)

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(Total for Question 2 = 12 marks)

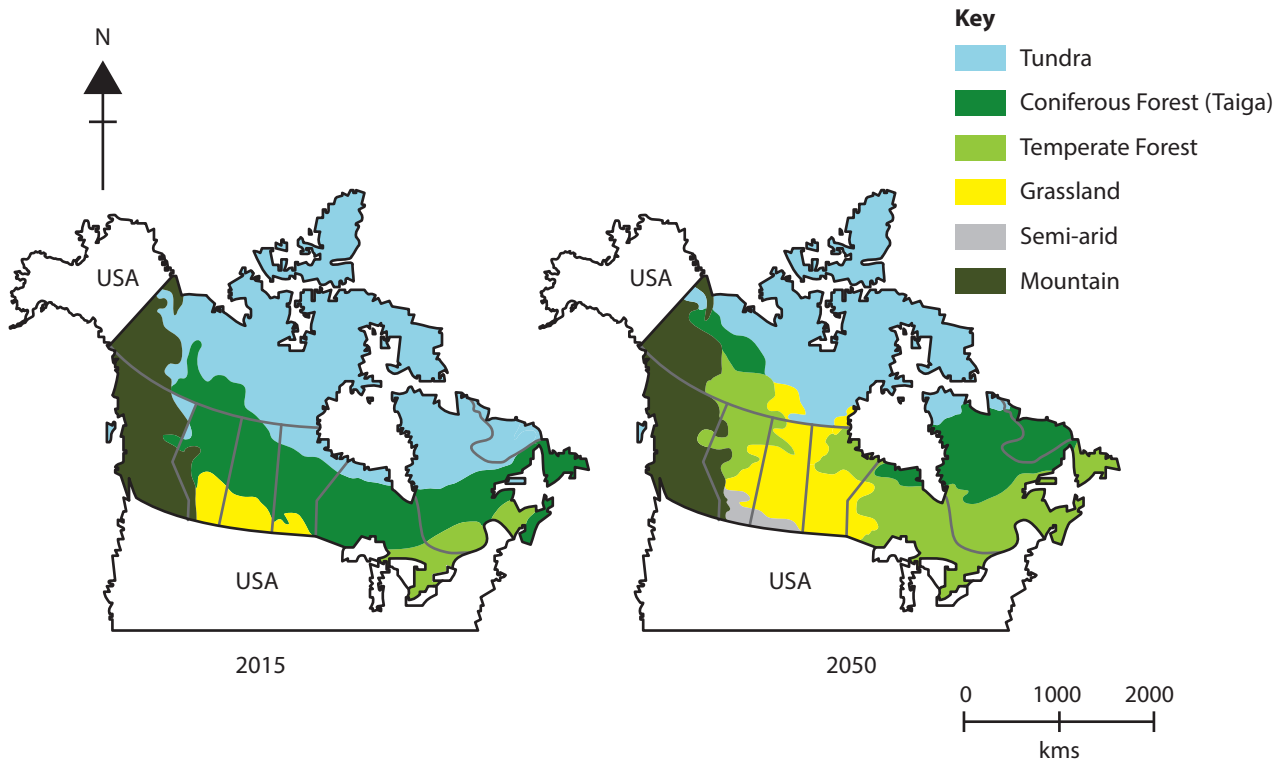


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QUESTION 3 BEGINS ON THE NEXT PAGE.



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.

Describe how the area of tundra is predicted to change by 2050.

(2)

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

(4)

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* (c) Explain how the biosphere influences the hydrological cycle.

(6)

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(Total for Question 3 = 12 marks)



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QUESTION 4 BEGINS ON THE NEXT PAGE.



Topic 4: Water World

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

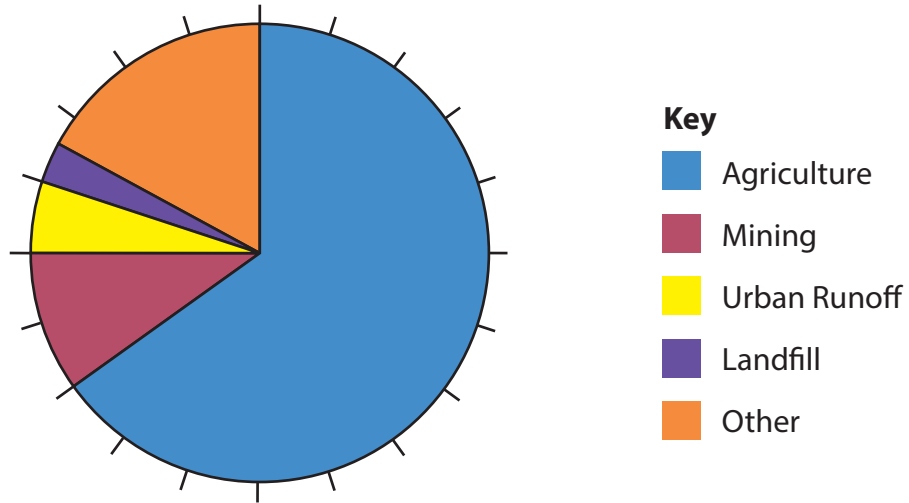


Figure 4

(a) Study Figure 4.

Outline **one** way agriculture causes river pollution.

(2)

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(b) 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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* (c) For a named vulnerable area, explain the impact on people of an insufficient and unreliable water supply.

(6)

Named vulnerable area:

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(Total for Question 4 = 12 marks)

TOTAL FOR SECTION A = 48 MARKS



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QUESTION 5 BEGINS ON THE NEXT PAGE.



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*(b).

5 Figure 5 shows a stretch of coastline.

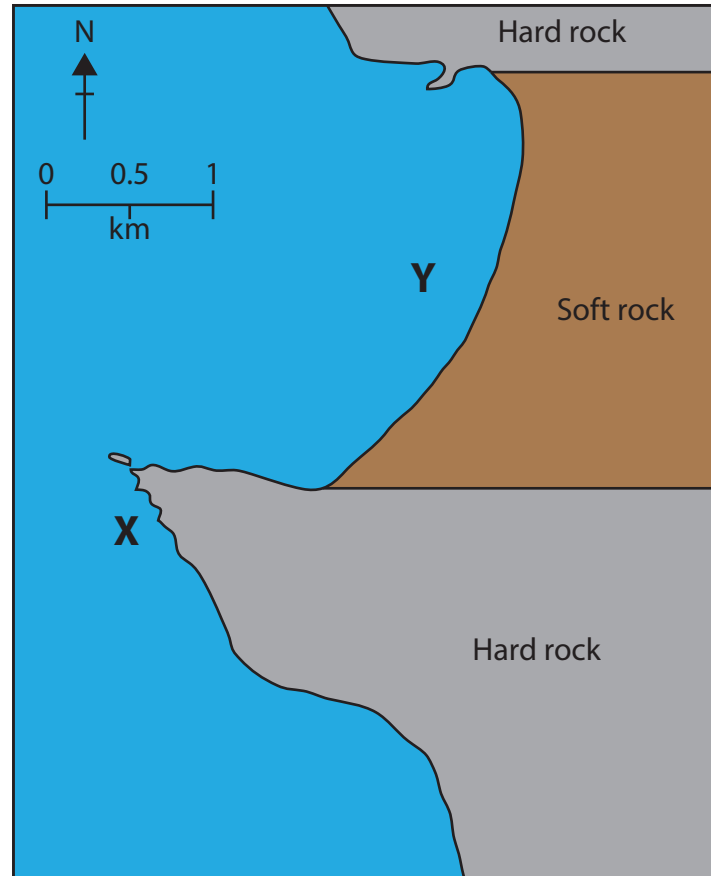


Figure 5

(a) Study Figure 5.

(i) Suggest a coastal landform likely to be found at X.

(1)



(ii) Explain the formation of the bay at Y.

(3)

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* (b) For a named coastline, examine the costs and benefits of using hard engineering to manage this coastline.

(8)

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.

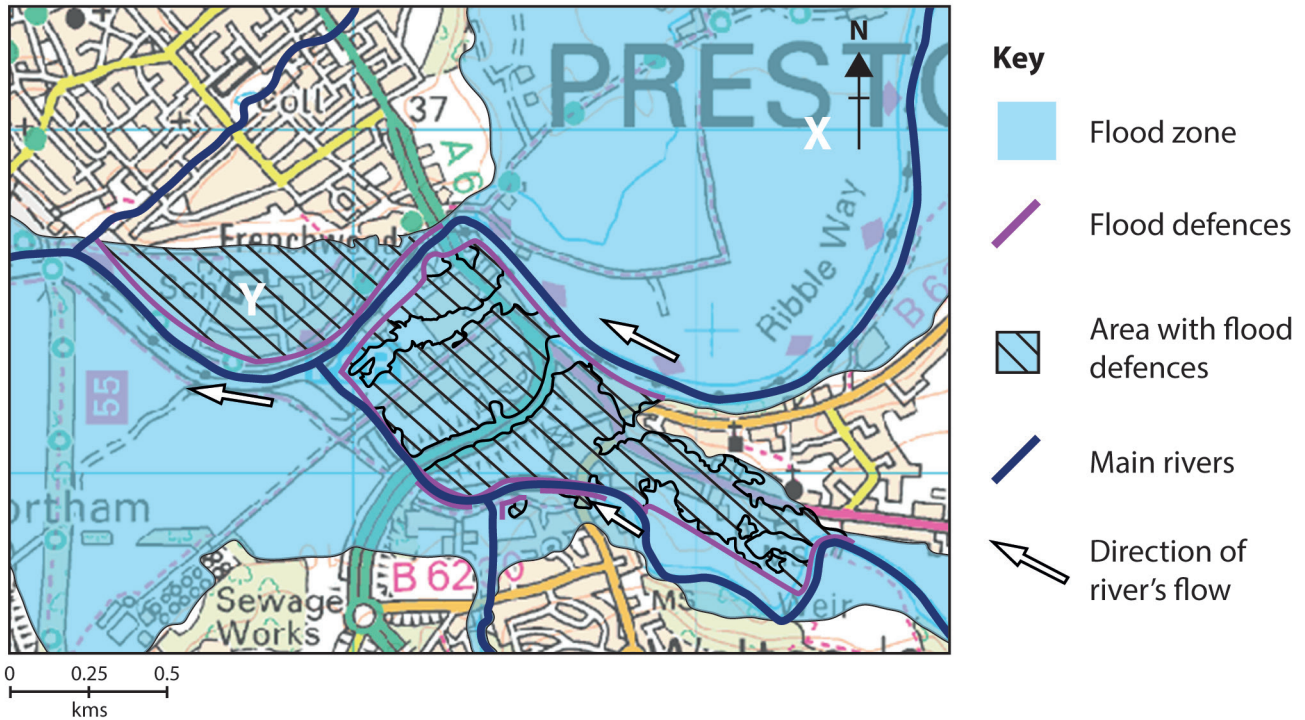


Topic 6: River Processes and Pressures

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

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

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) Suggest **one** reason why location Y has been protected from flooding.

(1)

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(ii) X is located on a washland, a method of soft engineering.

Explain why the washland at X will reduce the risk of flooding at Y.

(3)

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SECTION C: LARGE-SCALE DYNAMIC PLANET

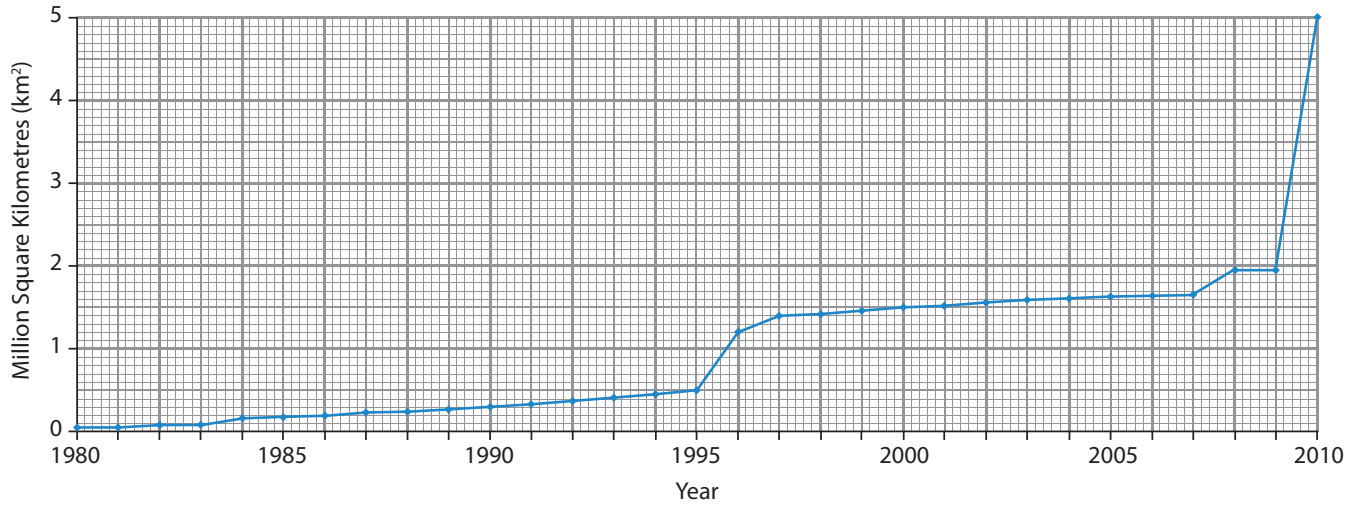
Answer ONE question in this section.

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*(c).

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.

Describe the change in the total area of marine reserves between 2000 and 2010.

(2)

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(b) Define the term **food web**.

(2)

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Topic 8: Extreme Environments

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

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

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

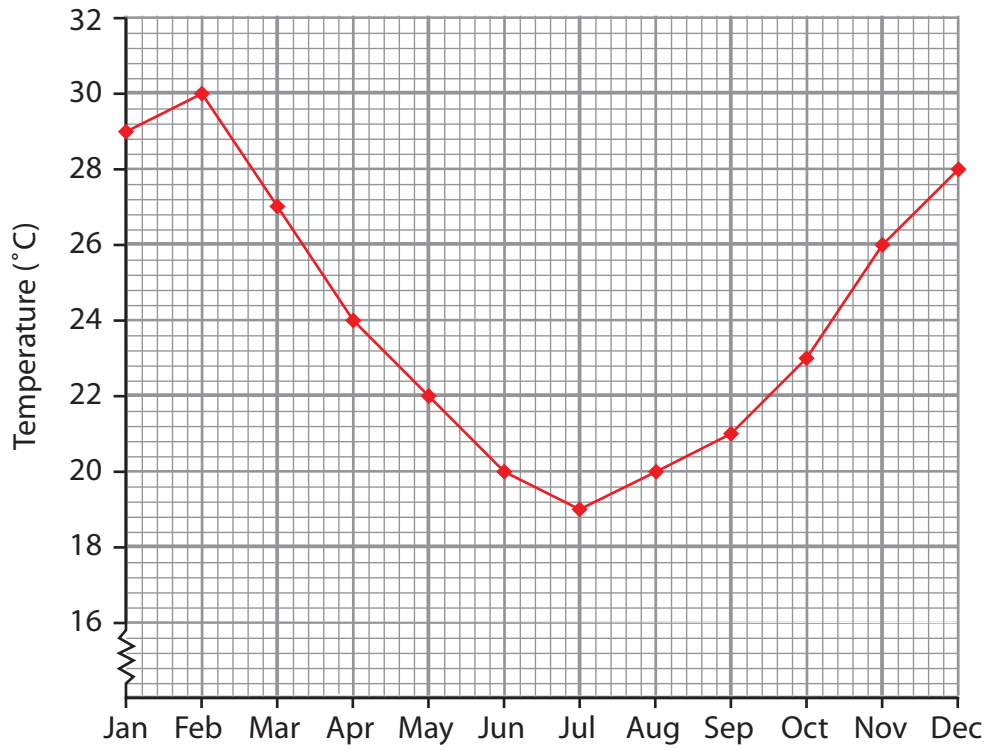


Figure 8

(a) Study Figure 8.

(i) Describe the change in mean monthly maximum temperature between February and July.

(2)

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(ii) Define the term **desertification**.

(2)

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