

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
TOTAL	



General Certificate of Secondary Education  
Higher Tier  
June 2012

# Geography (Specification B)

40352H

H

Unit 2 Hostile World

Monday 18 June 2012 9.00 am to 10.00 am

You will need no other materials.  
You may use a calculator.

### Time allowed

- 1 hour

### Instructions

- Use black ink or black ball-point pen. You may use pencil for maps, diagrams and graphs.
- Fill in the boxes at the top of this page.
- Answer **either** Section A (Questions 1 to 3) **or** Section B (Questions 4 to 6).
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- Use your case studies to support your answers where appropriate.

### Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 50.
- You are reminded of the need for good English and clear presentation in your answers. Where applicable, questions should be answered in continuous prose. Quality of Written Communication will be assessed in all answers.



J U N 1 2 4 0 3 5 2 H 0 1

Answer **either** Section A (Questions 1 to 3) **or** Section B (Questions 4 to 6).

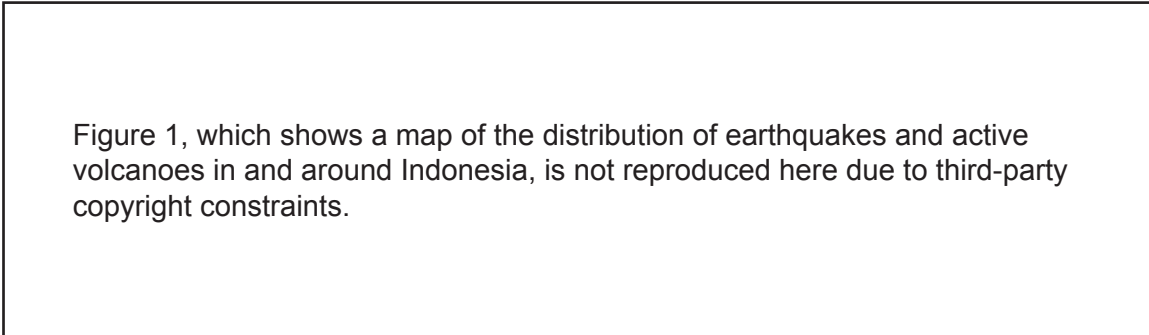
**Section A – Living with Natural Hazards**

Use your case studies to support your answers where appropriate.

**Total for this question: 18 marks**

- 1** Study **Figure 1**. **Figure 1** shows the distribution of earthquakes and active volcanoes in and around Indonesia, south-east Asia.

**Figure 1**



- 1 (a)** Describe the distribution of active volcanoes shown in **Figure 1**.

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*(2 marks)*



**1 (b)** Explain why there are earthquakes in and around Indonesia.  
Use **Figure 1** and your own knowledge.

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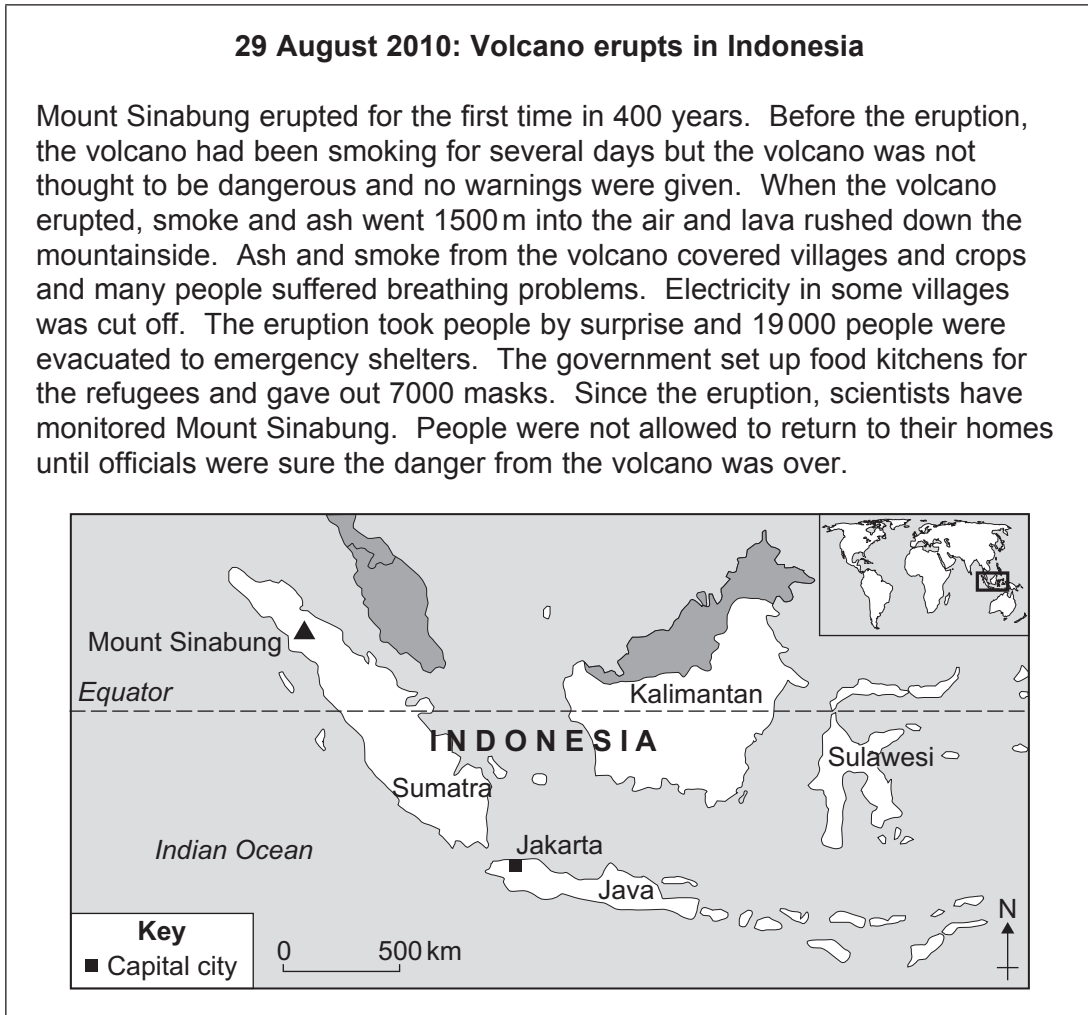
**Question 1 continues on the next page**

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1 (c) Study **Figure 2**. **Figure 2** gives information about a volcanic eruption in Indonesia (2010).

**Figure 2**



1 (c) (i) Describe the location of Mount Sinabung within Indonesia.

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(2 marks)



1 (c) (ii) 'The eruption took people by surprise.' Suggest **one** reason for this.

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(1 mark)

1 (c) (iii) Describe short-term responses to a volcanic eruption.  
Use **Figure 2** and your own knowledge.

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1 (d) Study **Figure 3**. **Figure 3** shows a method of reducing the damaging effects of earthquakes.

**Figure 3**

Figure 3 is not reproduced here due to third-party copyright constraints.  
Figure 3 shows a building which has been earthquake proofed.

Suggest how the damaging effects of earthquakes on buildings can be reduced.  
Use **Figure 3** and your own knowledge.

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**Total for this question: 15 marks**

- 2 (a)** Study **Figure 4**. **Figure 4** gives information about tropical storms in and around Australia (1990 to 2007).

**Figure 4**

Figure 4 is not reproduced here due to third-party copyright constraints.  
Figure 4 shows a map of Australia, containing the landfall points of severe tropical storms.

- 2 (a) (i)** Complete the paragraph below.

The area with the most tropical storms is off the .....  
coast of Australia, at latitude ..... degrees  
south and longitude 117 degrees east. No severe tropical storms made landfall  
south of the .....

*(3 marks)*





**2 (a) (ii)** Sea surface temperatures in the area shown as **X** on **Figure 4** are above 27°C.  
Explain how tropical storms form in this area.

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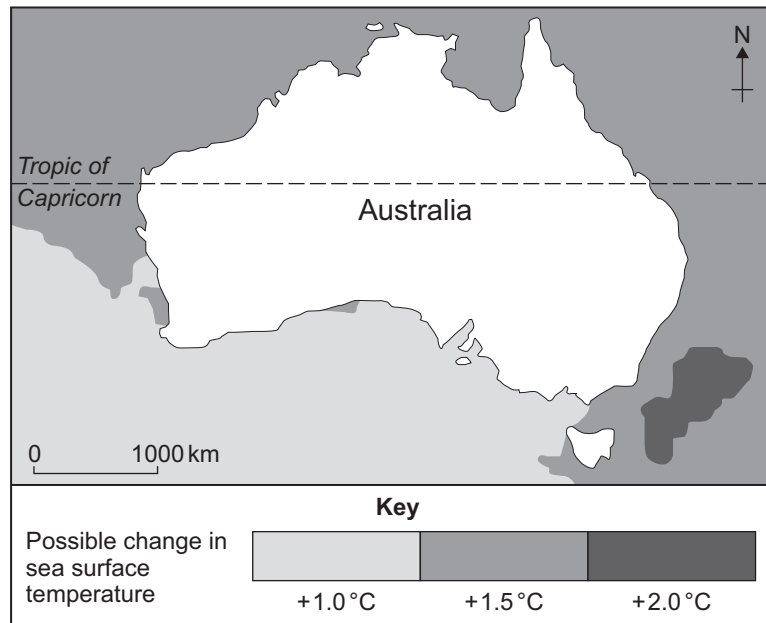
**Question 2 continues on the next page**

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2 (b) Study **Figure 5**. **Figure 5** shows how sea surface temperatures around Australia might change between 2010 and 2030.

**Figure 5**



2 (b) (i) Describe possible changes to sea surface temperature around Australia, as shown in **Figure 5**.

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(2 marks)



**2 (b) (ii)** Suggest how changes to sea surface temperatures around Australia might affect tropical storms in the future.

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(4 marks)

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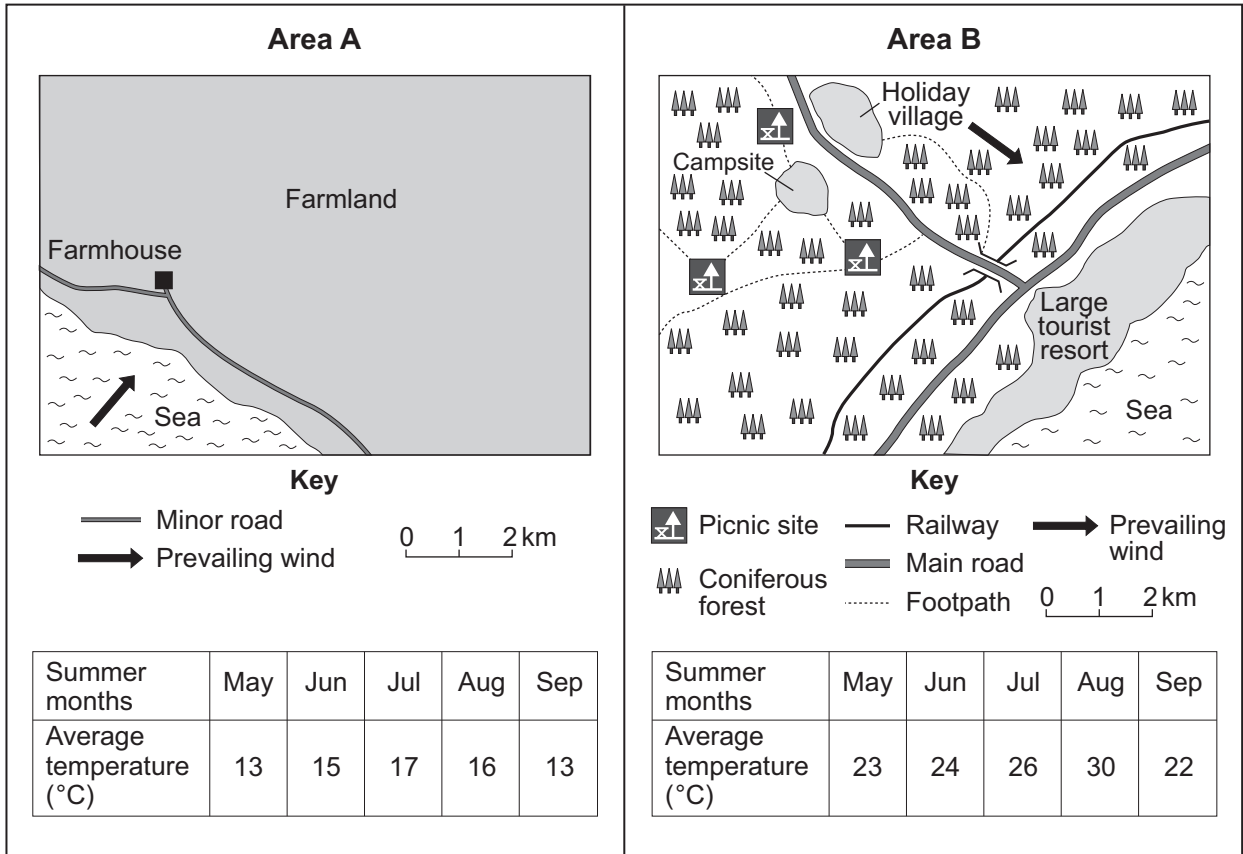
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Total for this question: 17 marks

3 (a) Study Figure 6. Figure 6 gives information about two coastal areas.

Figure 6



3 (a) (i) Compare the average temperatures in **Area A** with the average temperatures in **Area B**, as shown in **Figure 6**.

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(3 marks)





3 (b) Study Figure 7. Figure 7 shows a method used to reduce the number of wildfires.

Figure 7



'The method shown in Figure 7 is the best way of reducing the number of wildfires.'

Do you agree?

YES

NO

Give reasons for your decision.  
Use Figure 7 and your own knowledge.

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Answer **either** Section A (Questions 1 to 3) **or** Section B (Questions 4 to 6).

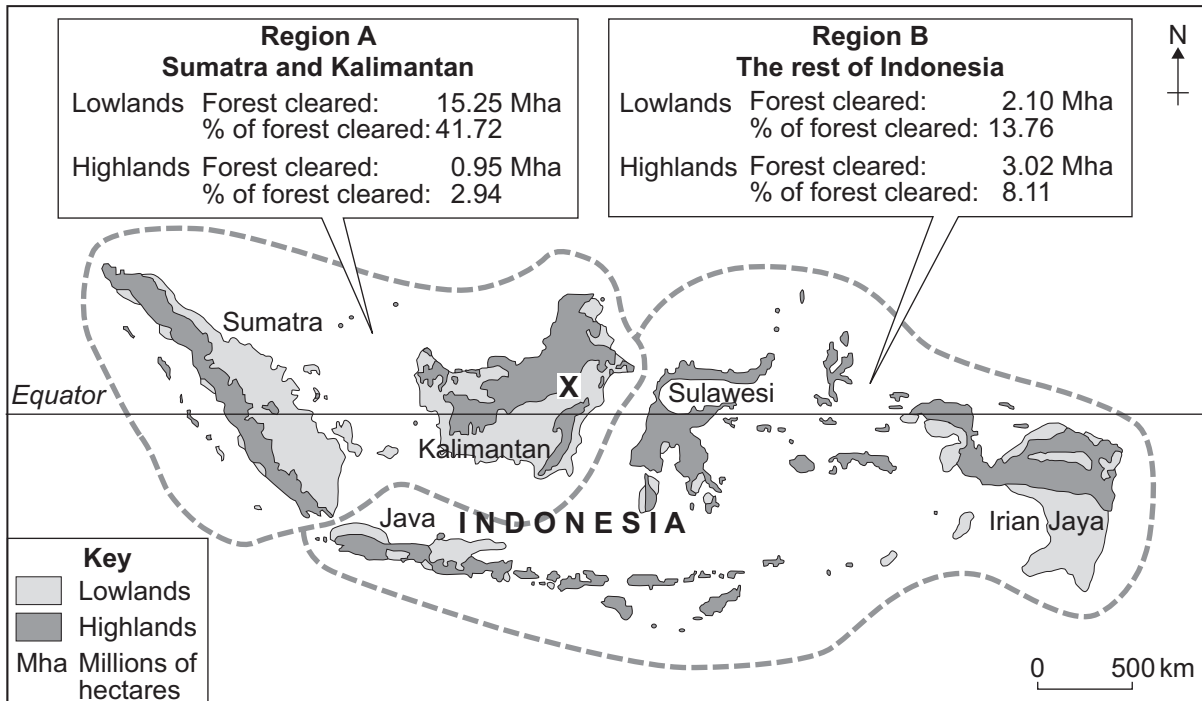
**Section B – The Challenge of Extreme Environments**

Use your case studies to support your answers where appropriate.

**Total for this question: 16 marks**

**4 (a)** Study **Figure 8**. **Figure 8** shows the amounts of deforestation in Indonesia.

**Figure 8**



**4 (a) (i)** State **two** differences in the amounts of deforestation between the two regions of Indonesia shown in **Figure 8**.

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(2 marks)





**4 (a) (ii)** The annual rainfall total in the area shown as **X** in **Figure 8** is 2862 mm.

Explain how climate affects the type and range of vegetation in tropical rainforests.

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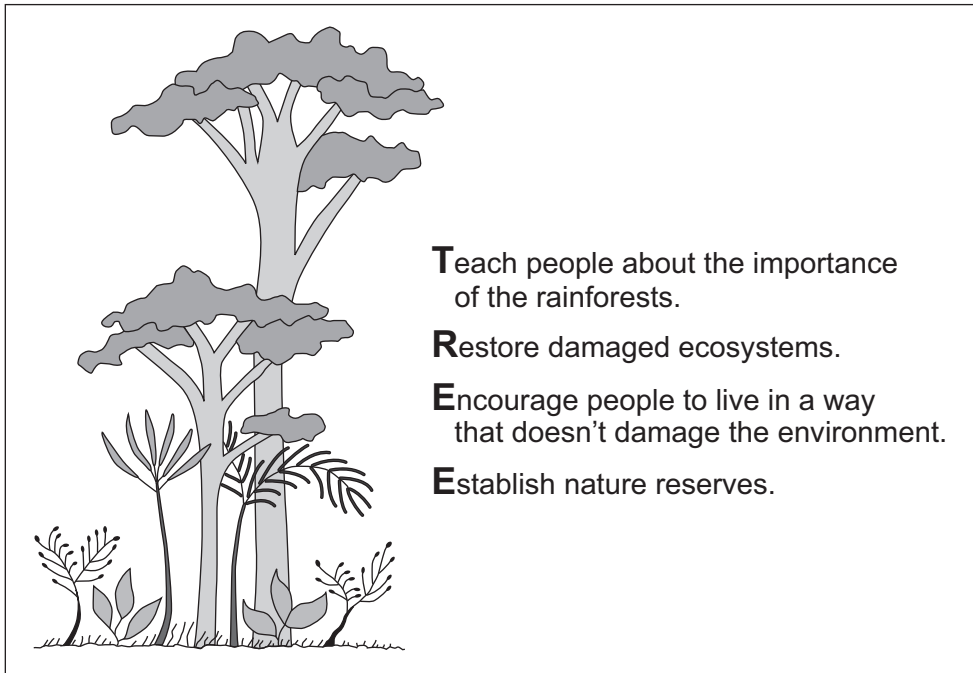
**Question 4 continues on the next page**

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4 (b) Study **Figure 9**. **Figure 9** shows how tropical rainforest environments could be managed.

**Figure 9**



'The method shown in **Figure 9** is the best way to manage tropical rainforest environments.'

Do you agree?

YES

NO

Give reasons for your decision.  
Use **Figure 9** and your own knowledge.

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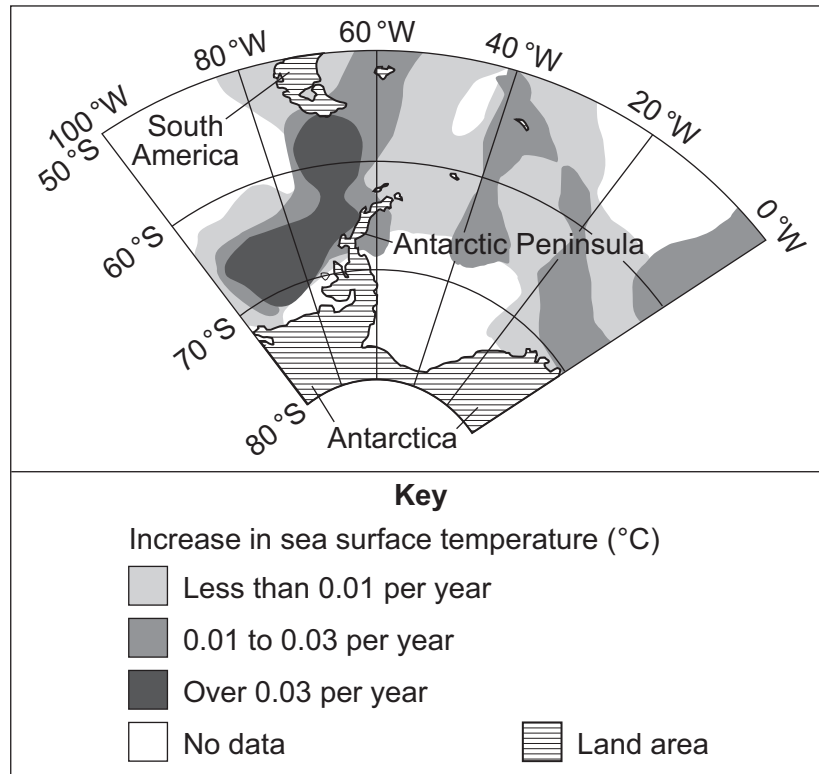
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**Total for this question: 15 marks**

- 5 (a)** Study **Figure 10**. **Figure 10** shows annual increases in sea surface temperature around Antarctica between 1955 and 2000.

**Figure 10**



Complete the paragraph below.

The sea area with the greatest increase in surface temperature was to the north and ..... of the Antarctic Peninsula, between latitudes 56 degrees south and ..... degrees south. In this area the sea surface temperature increased by ..... °C each year.

*(3 marks)*



**5 (b)** Explain how global warming could affect a cold environment.  
Use an example(s) you have studied.

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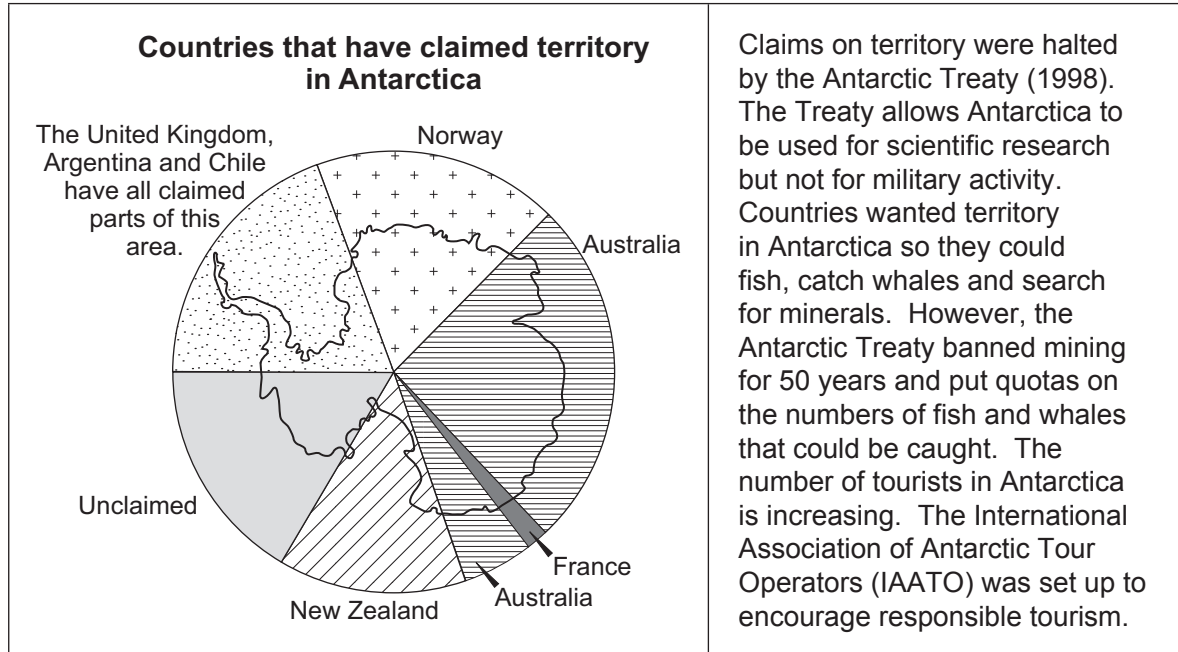
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5 (c) Study Figure 11. Figure 11 gives information about Antarctica.

Figure 11



5 (c) (i) Some countries have claimed territory in Antarctica. Give **one** reason for this.

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(1 mark)

5 (c) (ii) Identify **two** features of the territorial claims in Antarctica shown on the map in Figure 11.

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(2 marks)



**5 (c) (iii)** Describe how organisations have responded to the environmental threats to Antarctica. Use **Figure 11** and your own knowledge.

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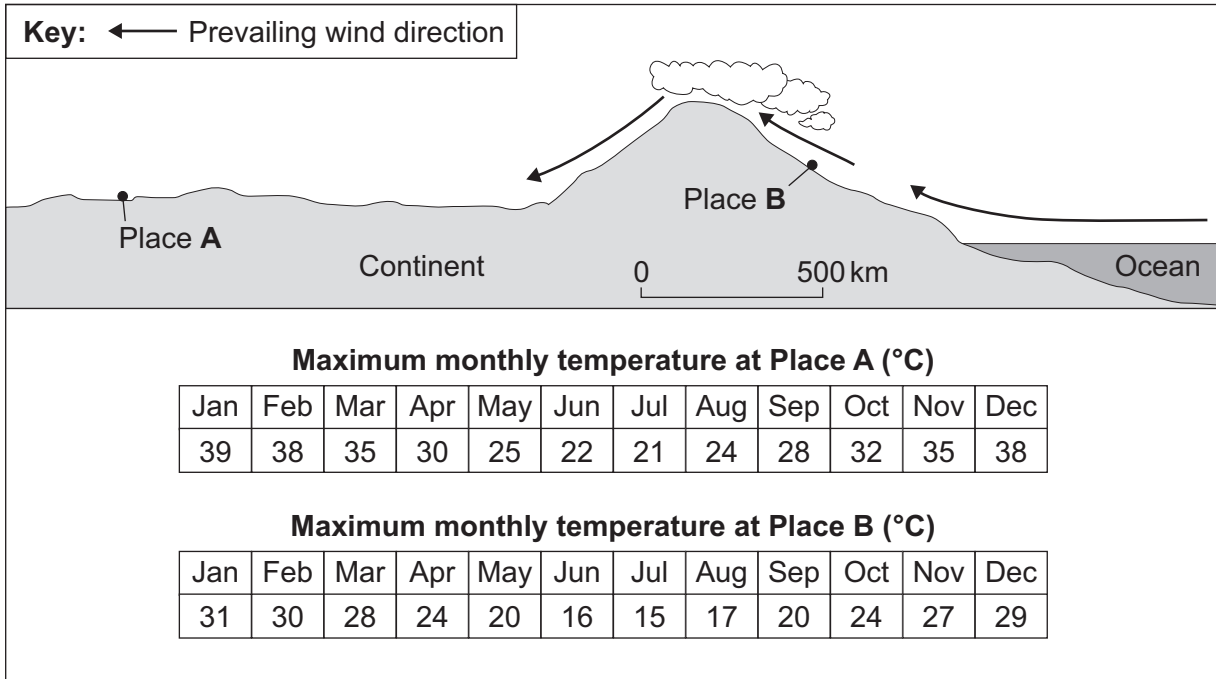
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**Total for this question: 19 marks**

- 6 (a)** Study **Figure 12**. **Figure 12** shows the locations of two places and gives information about maximum monthly temperatures in each place.

**Figure 12**



- 6 (a) (i)** Compare the maximum monthly temperatures in Place **A** with the maximum monthly temperatures in Place **B**.

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*(3 marks)*

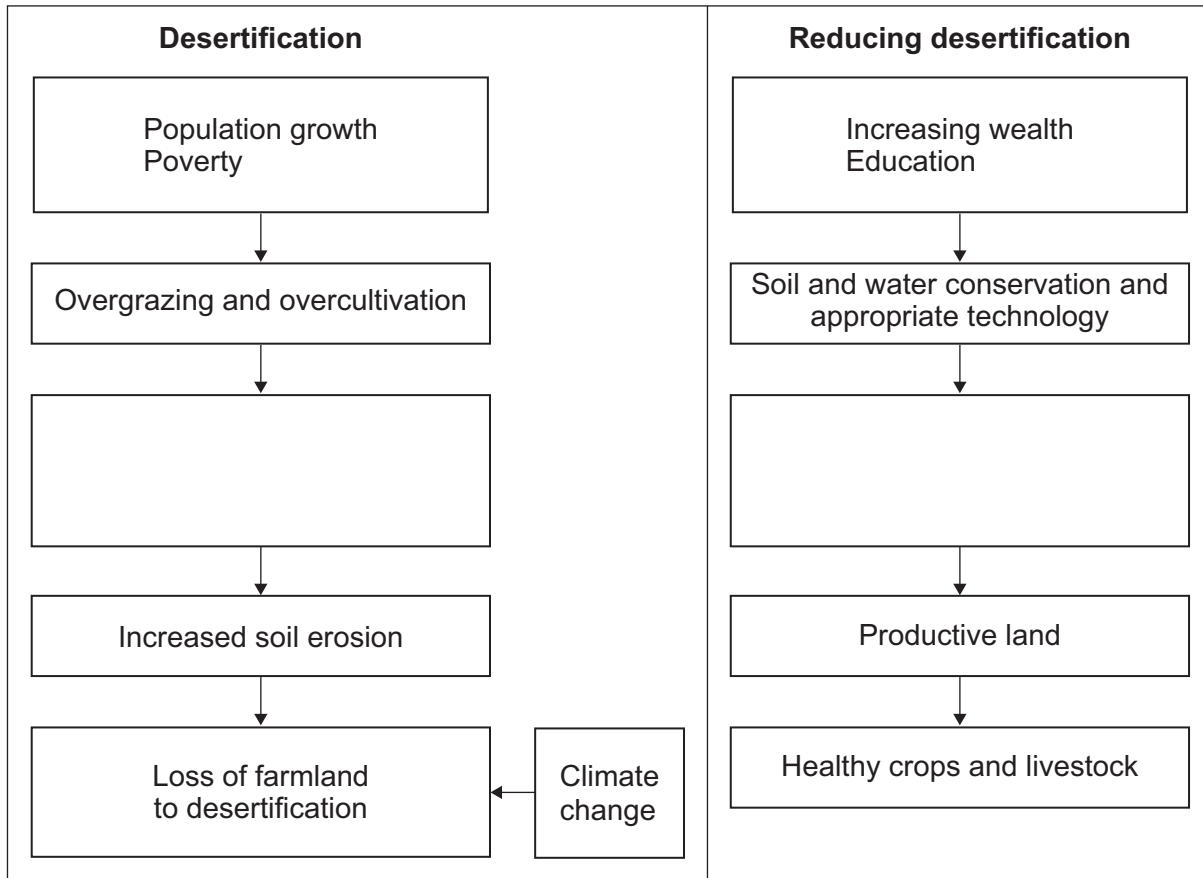






6 (b) Study Figure 13. Figure 13 gives information about desertification.

Figure 13



6 (b) (i) Complete Figure 13.  
Choose the **two** correct answers from those given below.

Reduced soil erosion

Reforestation

Vegetation cover removed

(2 marks)



**6 (b) (ii)** Suggest how climate change could increase the risk of desertification.

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(4 marks)

**6 (b) (iii)** Suggest how desertification can be reduced.  
Use **Figure 13** and your own knowledge.

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**END OF QUESTIONS**



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- Figure 9: mongabay.com
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- Figure 11: British Antarctic Survey

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