

Centre Number						Candidate Number				
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Other Names										
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For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
TOTAL	



General Certificate of Secondary Education
Foundation Tier
June 2012

Geography (Specification B)

40352F

F

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.



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40352F

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: 17 marks

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

Figure 1

Figure 1, which shows a map of the distribution of earthquakes and active volcanoes in and around Indonesia, is not reproduced here due to third-party copyright constraints.

- 1 (a)** Use **Figure 1** to decide which **two** of the following statements are correct.

Tick the **two** correct boxes.

The island of Java has more active volcanoes than major earthquakes.

No earthquakes have happened in Irian Jaya.

Kalimantan has not had a major earthquake in the last 100 years.

The island of Sulawesi has not had a major earthquake in the last 100 years.

(2 marks)



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

Figure 2



1 (c) (i) Give **one** fact about the location of Mount Sinabung within Indonesia.

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.....

(1 mark)

1 (c) (ii) From **Figure 2**, give **two** effects of the volcanic eruption **and two** responses to the volcanic eruption.

Effect 1

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Effect 2

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Response 1

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Response 2

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(4 marks)

1 (c) (iii) Scientists did not monitor Mount Sinabung **before** it erupted.
Suggest **one** reason why.

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(1 mark)

Question 1 continues on the next page

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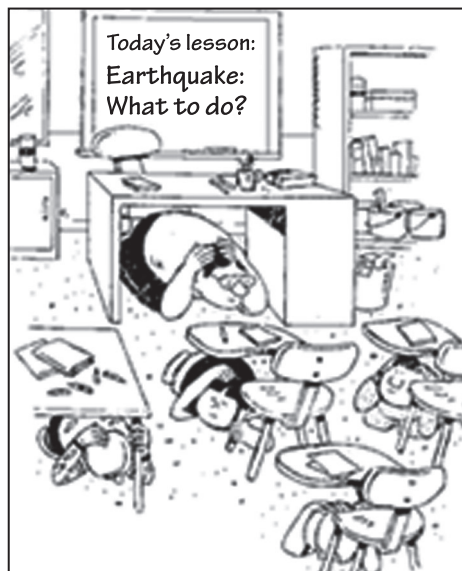


- 1 (d) Study **Figure 3**. **Figure 3** shows two methods (**A** and **B**) of reducing the damaging effects of earthquakes.

Figure 3

Method A on this diagram is not reproduced here due to third-party copyright constraints. Method A shows a building which has been earthquake proofed.

Method B



1 (d) (i) Label **Method A** on **Figure 3**. Choose the **two** correct answers from the list below.

- Shatterproof glass**
- Cross bracing**
- Bamboo frame**
- Shock absorber**

(2 marks)

1 (d) (ii) Give **two** ways in which **Method B** might help to reduce the risk of injury from an earthquake.

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(2 marks)

17

Turn over for the next question

Turn over ►



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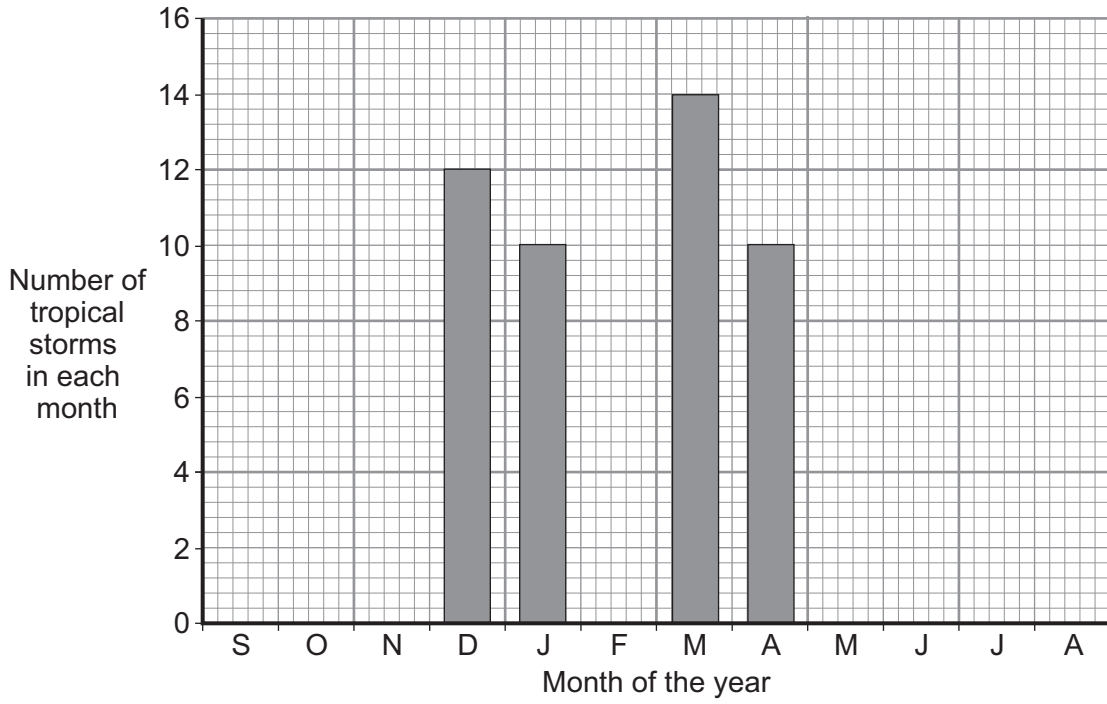
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Total for this question: 15 marks

2 (a) Study **Figure 4**. **Figure 4** shows the total number of tropical storms in Australia in each month from 1990 to 2007.

Figure 4



2 (a) (i) Complete **Figure 4**.
Use the information below.

Number of tropical storms in February = 10

(1 mark)

2 (a) (ii) How long is the tropical storm season in Australia?

..... months

(1 mark)

Question 2 continues on the next page

Turn over ►



- 2 (b)** Study **Figure 5**. **Figure 5** gives information about tropical storms in and around Australia (1990 to 2007).

Figure 5

Figure 5 is not reproduced here due to third-party copyright constraints. Figure 5 shows a map of Australia, containing the landfall points of severe tropical storms.

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

Choose **three** correct terms from the list below.

north-east

10

Equator

north-west

15

Tropic of Capricorn

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 (b) (ii) Sea surface temperatures in the area shown as **X** on **Figure 5** are above 27°C.
Explain why tropical storms form in this area.

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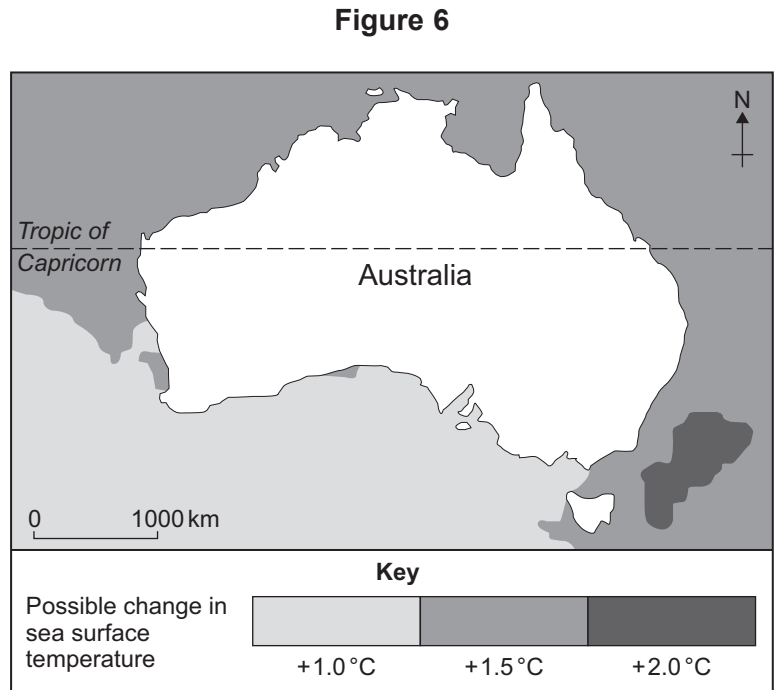
(4 marks)

Question 2 continues on the next page

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2 (c) Study **Figure 6**. **Figure 6** shows how sea surface temperatures around Australia might change between 2010 and 2030.



2 (c) (i) Use **Figure 6** to decide whether each of the following statements is true or false.

Tick the **two** correct boxes.

The area predicted to have the greatest increase in sea surface temperature is off the south-east coast of Australia.

The surface temperatures of all sea areas around Australia are predicted to increase by at least 1.5°C.

True	False

(2 marks)



2 (c) (ii) Suggest how changes to sea surface temperatures around Australia might affect:

- the number of tropical storms in the future.

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- the distribution of tropical storms in the future.

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(4 marks)

15

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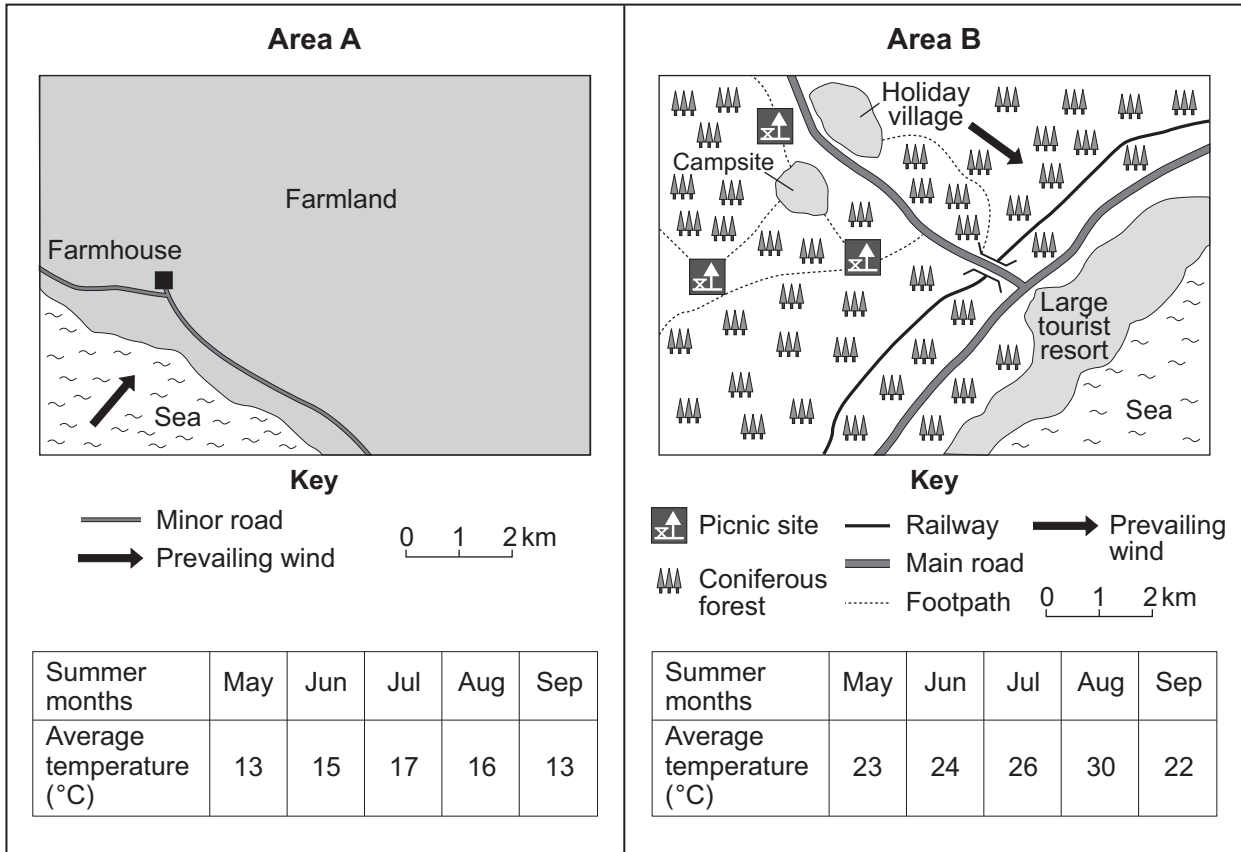
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Total for this question: 18 marks

3 (a) Study Figure 7. Figure 7 gives information about two coastal areas.

Figure 7



3 (a) (i) Complete the sentences below.
 Circle the correct answer in **each** set of brackets.

The month with the highest temperature in **Area A** is [**May / June / July**]

but in **Area B** the month with the highest temperature is August.

In **Area B** the range of temperature in the summer months is

[**8 / 10 / 12**]°C but in **Area A** the range of temperature in the summer months is 4°C.

(2 marks)



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(4 marks)

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3 (c) Study **Figure 8**. **Figure 8** shows a method used to reduce the number of wildfires.

Figure 8



'The method shown in **Figure 8** is the best way of reducing the number of wildfires.'

Do you agree?

YES

NO

Give reasons for your decision.
Use **Figure 8** and your own knowledge.

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(6 marks)

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End of Section A

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

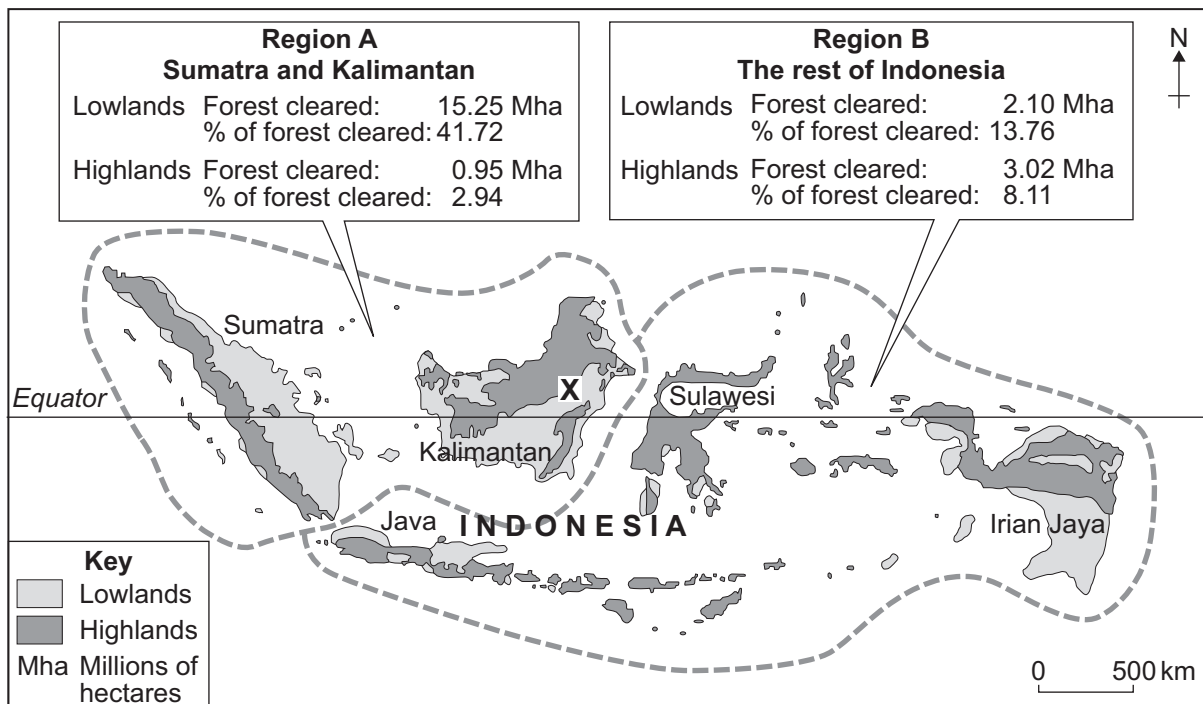
Section B – The Challenge of Extreme Environments

Use your case studies to support your answers where appropriate.

Total for this question: 16 marks

4 (a) Study **Figure 9**. **Figure 9** shows the amounts of deforestation in Indonesia.

Figure 9



4 (a) (i) Use **Figure 9** to decide whether each of the following statements is true or false.

Tick the **two** correct boxes.

The largest area of forest clearance is in Sumatra and Kalimantan.

The largest percentage of forest clearance is in lowland areas.

True	False
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

(2 marks)



4 (a) (ii) The annual rainfall total in the area shown as **X** in **Figure 9** is 2862 mm.

Explain why tropical rainforest is found in this area.

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(4 marks)

4 (b) Describe the effects of deforestation.

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(4 marks)

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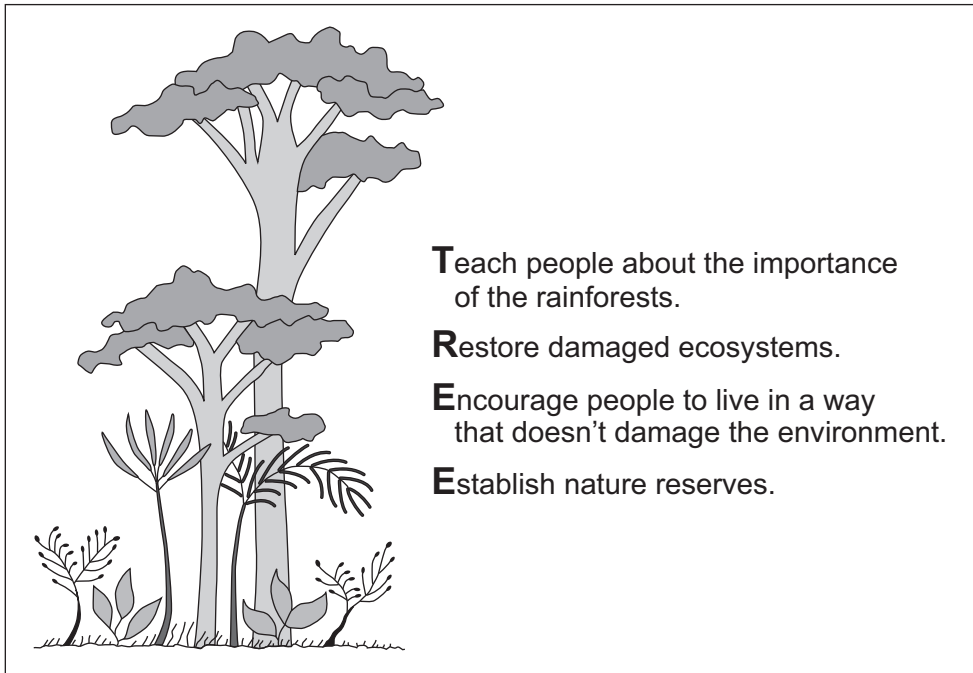
Question 4 continues on the next page

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4 (c) Study **Figure 10**. **Figure 10** shows how tropical rainforest environments could be managed.

Figure 10



'The method shown in **Figure 10** is the best way to manage tropical rainforest environments.'

Do you agree?

YES

NO

Give reasons for your decision.
Use **Figure 10** and your own knowledge.

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(6 marks)

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16

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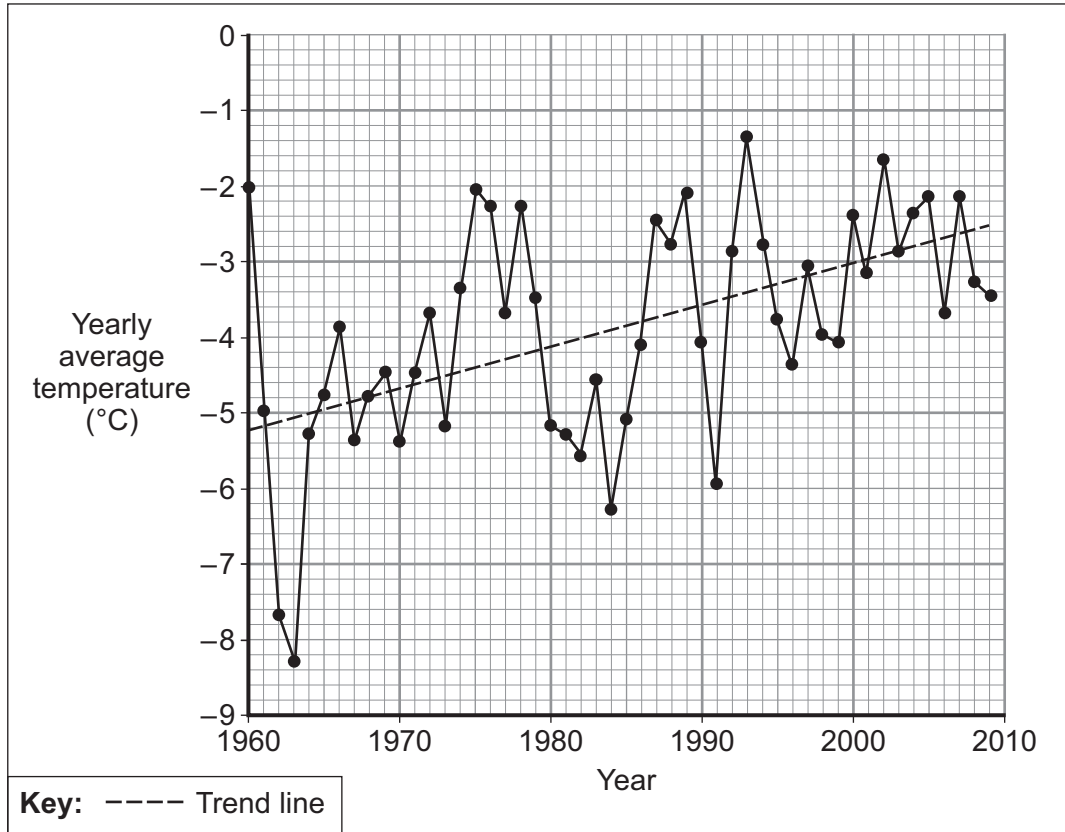
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Total for this question: 18 marks

5 (a) Study **Figure 11**. **Figure 11** shows the yearly average temperature at Vernadsky research station in Antarctica (1960 to 2010).

Figure 11



5 (a) (i) Complete **Figure 11**.
Use the information below.

Yearly average temperature in 2010 = -2.5°C

(1 mark)

5 (a) (ii) Describe the main change to yearly average temperatures at Vernadsky research station between 1960 and 2010.

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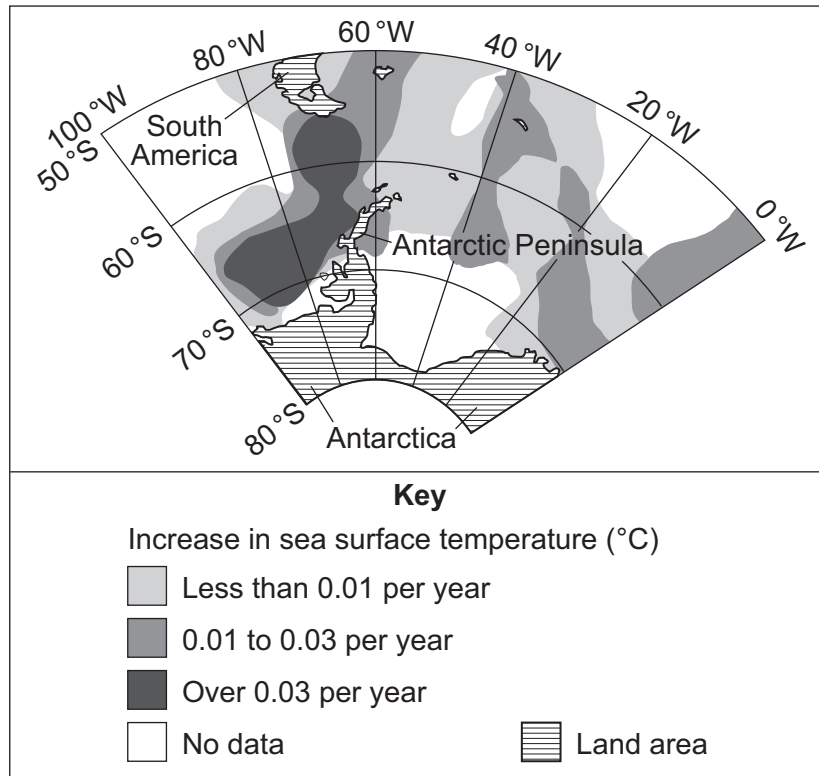
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(2 marks)



5 (b) Study **Figure 12**. **Figure 12** shows annual increases in sea surface temperature around Antarctica between 1955 and 2000.

Figure 12



Complete the paragraph below.

Choose the **three** correct terms from the list below.

- | | | |
|-------------|-----------|-----------------------|
| east | 72 | less than 0.01 |
| west | 82 | over 0.03 |

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)

Question 5 continues on the next page

Turn over ►



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

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(5 marks)

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Question 5 continues on the next page

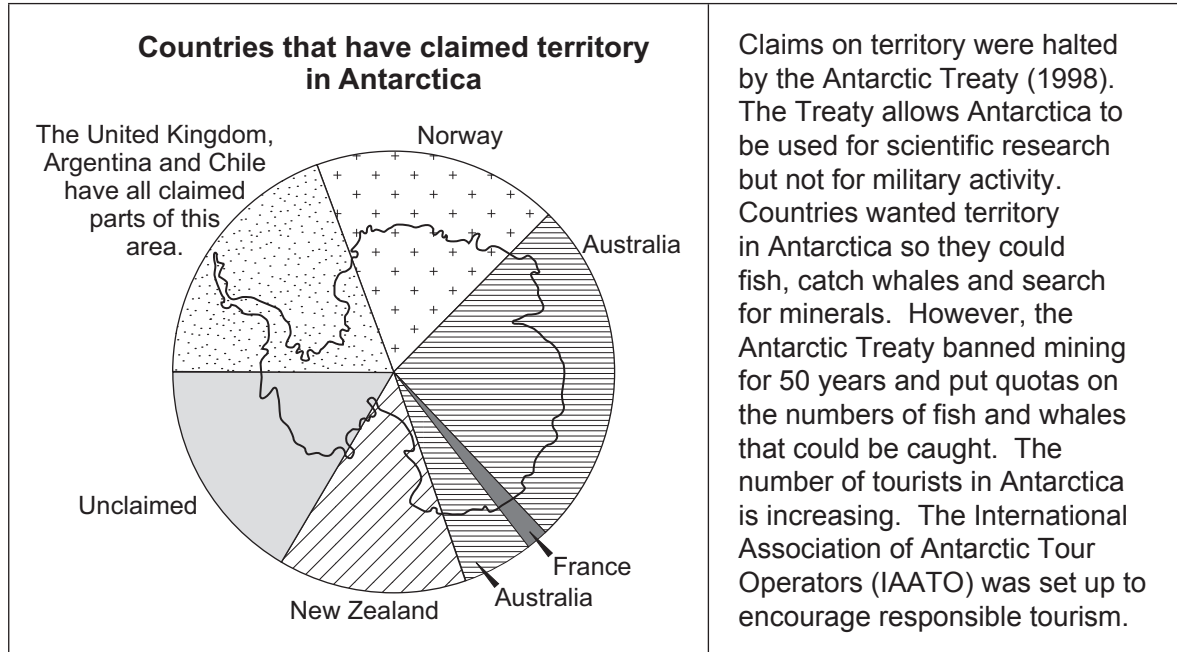
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5 (d) Study Figure 13. Figure 13 gives information about Antarctica.

Figure 13



5 (d) (i) How many countries claimed territory in Antarctica?

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(1 mark)

5 (d) (ii) From Figure 13, give **two** threats to Antarctica **and** **two** responses to threats to Antarctica.

Threat 1

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Threat 2

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Response 1

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Response 2

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(4 marks)

5 (d) (iii) Using **Figure 13**, suggest why there might be conflict between countries that claimed territory in Antarctica.

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(2 marks)

18

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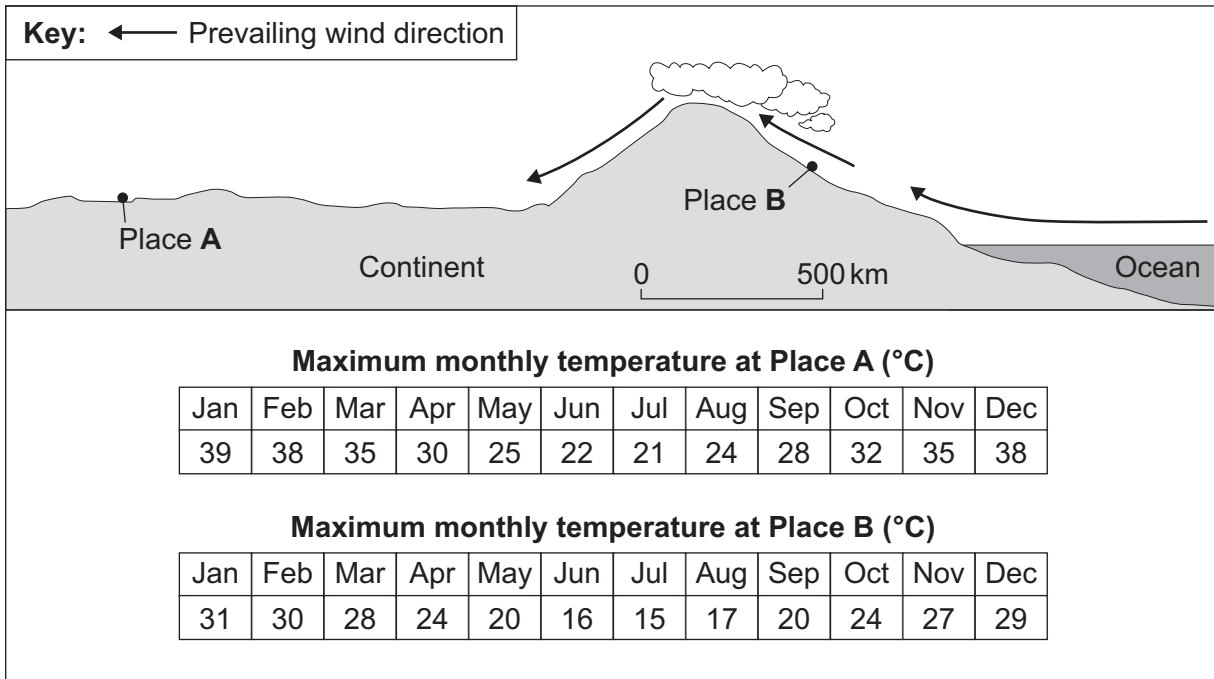
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Total for this question: 16 marks

- 6 (a) Study **Figure 14**. **Figure 14** shows the locations of two places and gives information about maximum monthly temperatures in each place.

Figure 14



- 6 (a) (i) Complete the sentences below.
Circle the correct answer in **each** set of brackets.

The month with the highest average temperature at places **A** and **B** is

[**May / August / January**] and the month with the lowest average

temperature at places **A** and **B** is July. At place **B** the range of temperature

is [**10 / 14 / 16**]°C but at place **A** the range of temperature is 18°C.

(2 marks)



6 (a) (ii) Which of the places in **Figure 14 (A or B)** is more likely to be in an area of hot desert?

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(1 mark)

6 (a) (iii) Explain your answer to **Question 6 (a) (ii)**.
Use **Figure 14** and your own knowledge.

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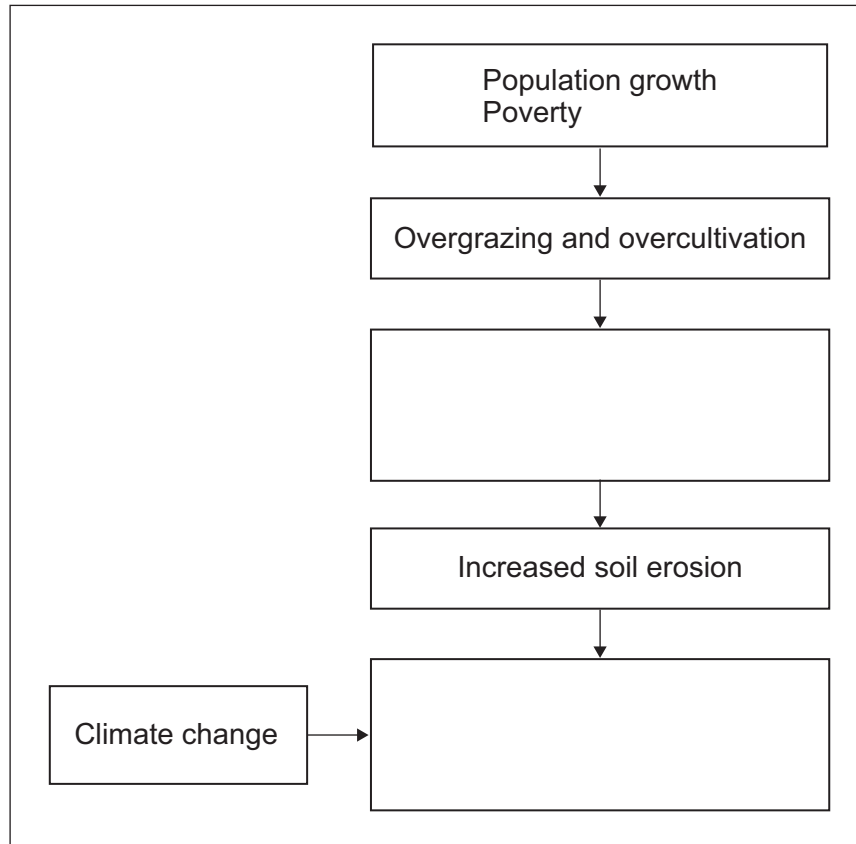
Question 6 continues on the next page

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6 (b) Study **Figure 15**. **Figure 15** gives information about desertification.

Figure 15



6 (b) (i) Complete **Figure 15**.
Choose the **two** correct answers from those given below.

Vegetation cover removed

Reduced soil erosion

Loss of farmland to desertification

(2 marks)

6 (b) (ii) Give **two** ways in which climate change could increase the risk of desertification.

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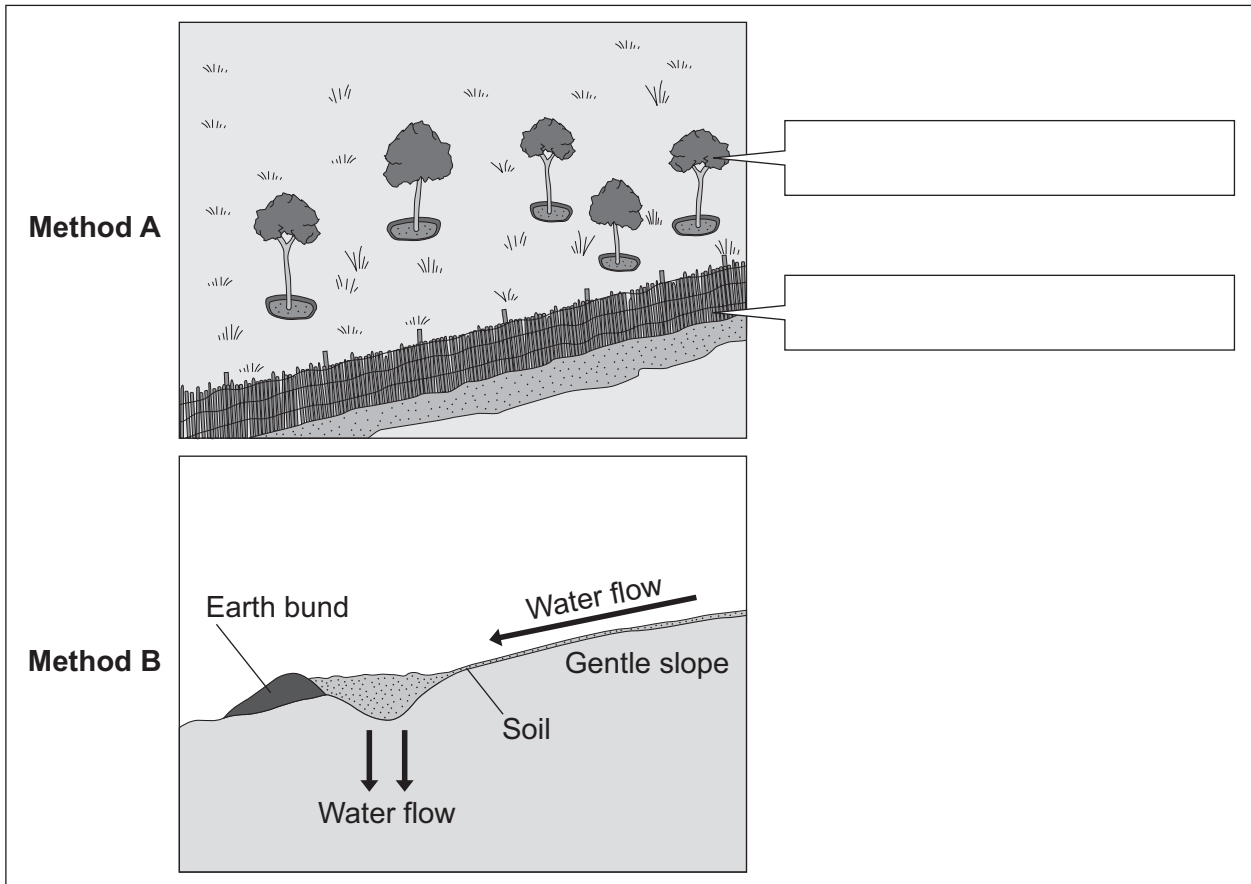
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(2 marks)



6 (c) Study Figure 16. Figure 16 shows two methods (A and B) of managing desertification.

Figure 16



6 (c) (i) Label **Method A** on **Figure 16**. Choose the **two** correct answers from those given below.

Irrigation

Reforestation

Terracing

Wind break

(2 marks)

6 (c) (ii) Give **two** ways in which **Method B** might help to reduce desertification.

1

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(2 marks)

END OF QUESTIONS



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- Figure 6: Csiro & Bureau of Meteorology (2007) Climate Change in Australia technical report
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