

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
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5	
6	
7	
8	
TOTAL	



General Certificate of Secondary Education
Foundation Tier
January 2011

Geography (Specification B)

40352F

F

Paper 2 Hostile World

Monday 24 January 2011 9.00 am to 10.00 am

For this paper you must have:

- the insert (enclosed).
- 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 **or** Section B.
- 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 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 A N 1 1 4 0 3 5 2 F 0 1

Answer **either** Section A or Section B.

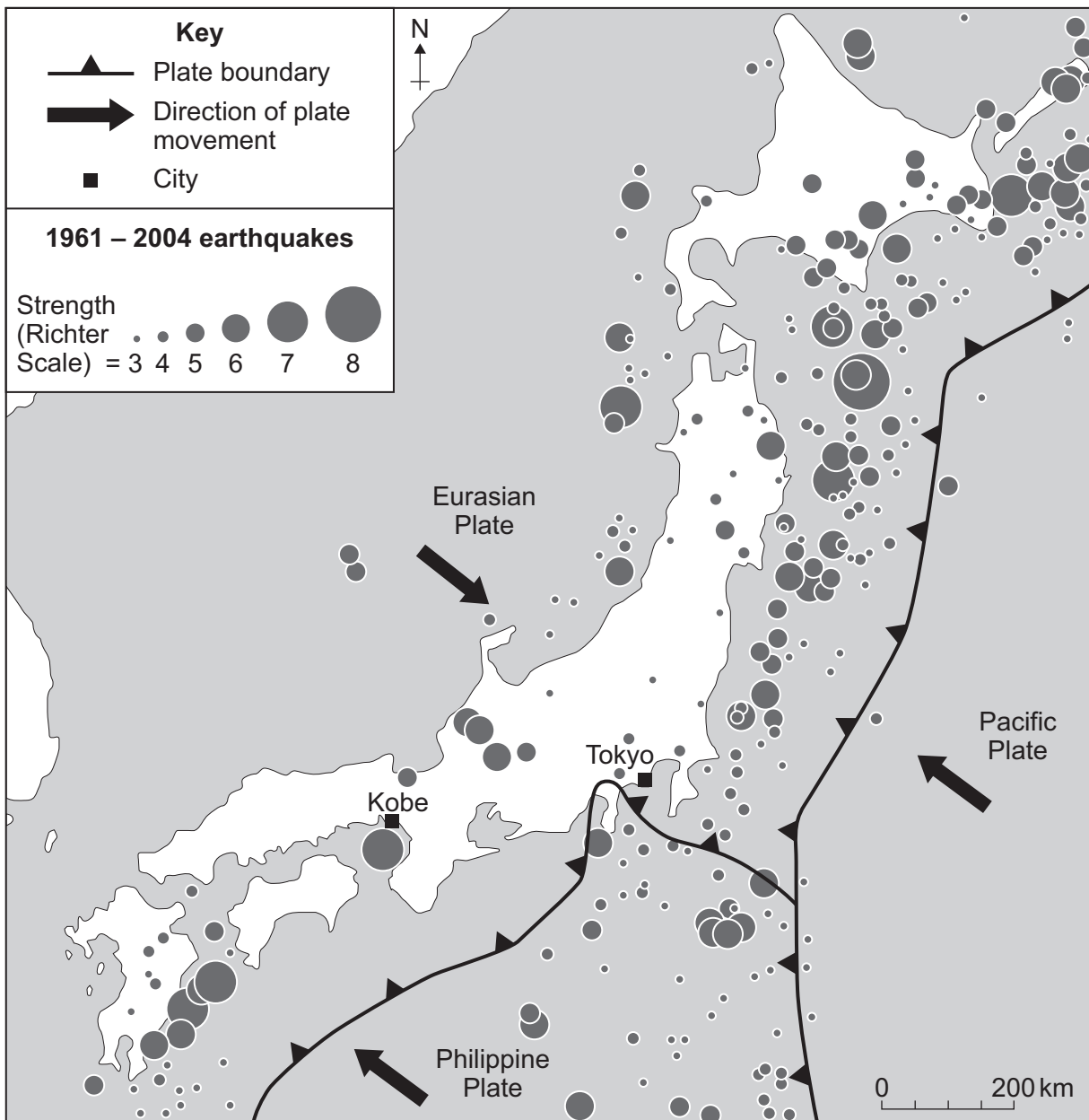
Section A – Living with Natural Hazards

Use case studies to support your answers where appropriate.

Total for this question: 12 marks

- 1 Study **Figure 1**. **Figure 1** shows the distribution of earthquakes in and around Japan (1961–2004).

Figure 1



1 (a) The following statements describe the distribution of earthquakes in and around Japan.
Use **Figure 1** to decide which **two** of the following statements are correct.

Tick the **two** correct boxes.

Most earthquakes happened to the east of Japan.

Most earthquakes happened to the west of Japan.

No earthquakes greater than 5 on the Richter Scale happened on land.

No earthquakes greater than 5 on the Richter Scale happened within 50 km of Tokyo.

(2 marks)

1 (b) Explain why there are many earthquakes in and around Japan.

Use **Figure 1** and your own knowledge.

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(4 marks)

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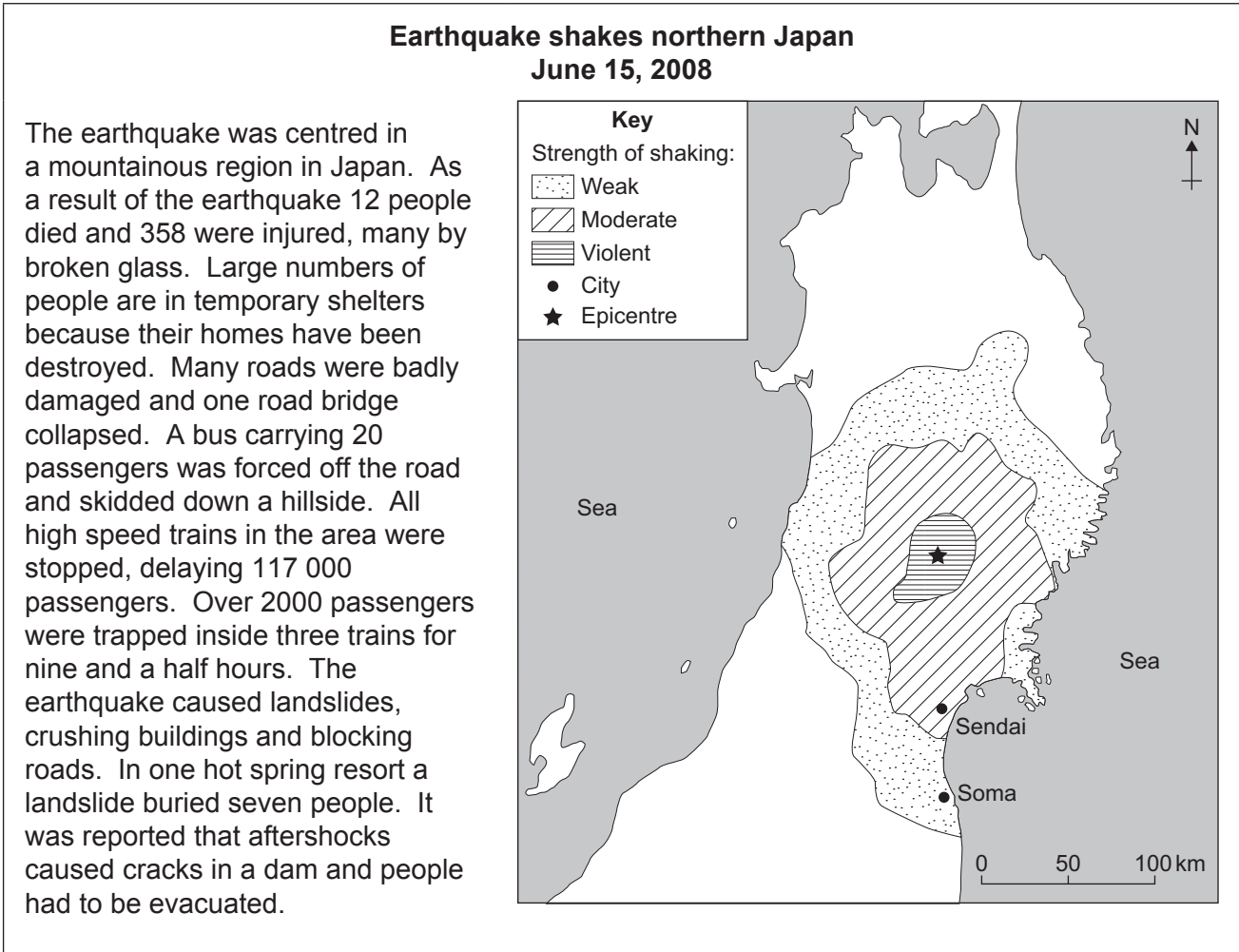
Question 1 continues on the next page

Turn over ►



1 (c) Study Figure 2. Figure 2 shows information about an earthquake in Japan (2008).

Figure 2



1 (c) (i) What was the strength of shaking in Sendai?

.....
(1 mark)

1 (c) (ii) Suggest why there was little earthquake damage in Soma.

.....

(1 mark)



1 (c) (iii) From **Figure 2**, give **two** examples of the primary effects of the earthquake and **two** examples of the secondary effects of the earthquake.

Complete the table below.

Primary effects	Secondary effects
1	1
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2	2
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(4 marks)

12

Turn over for the next question

Turn over ►



Total for this question: 15 marks

2 Study **Figure 3**, on the insert, a map of the world. The map shows the distribution and strength of tropical storms.

2 (a) Complete the paragraph below.

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

Indian	30	Equator	northern
Pacific	5	Tropics	southern

Most tropical storms are found between latitudes 10 degrees and
degrees north and south of the

Tropical storms are more common in the hemisphere.

The greatest number of category five storms happen in the
Ocean.

(4 marks)

2 (b) Which **one** of the following is needed for a tropical storm to form?

Tick the correct box.

Calm seas

High sea temperatures

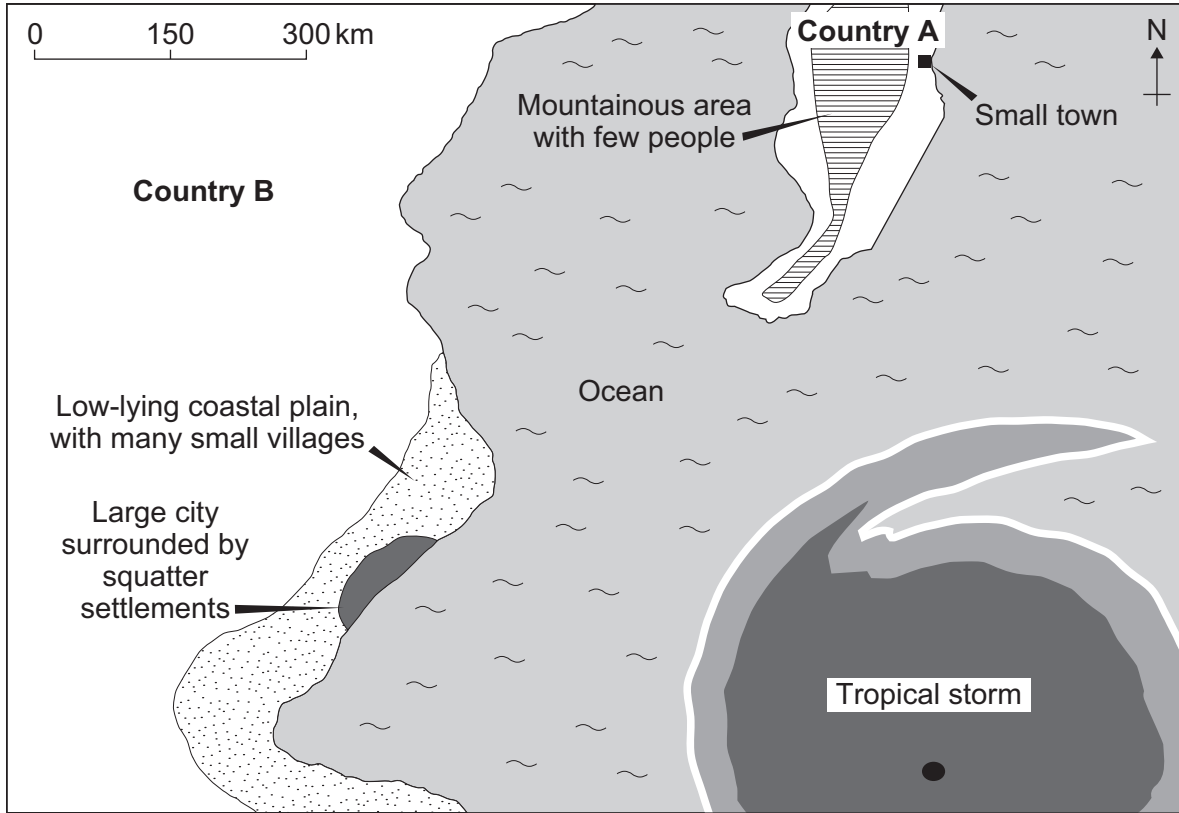
Low sea temperatures

(1 mark)



2 (c) Study Figure 4. Figure 4 shows parts of two countries (A and B).

Figure 4



Country A – Factfile	
GNI (US \$ per person)	37 670
Internet users (per 100 people)	92
TV sets (per 100 people)	98

Country B – Factfile	
GNI (US \$ per person)	540
Internet users (per 100 people)	10
TV sets (per 100 people)	21

The tropical storm will probably cause more damage in **Country B**.

Suggest **three** reasons why. Use the information in **Figure 4**.

- 1
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- 2
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- 3
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(3 marks)

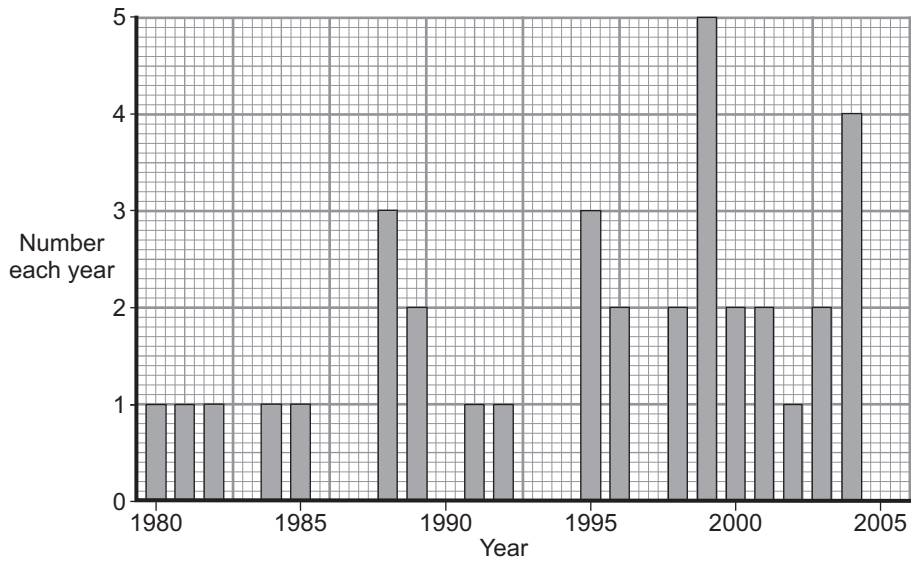
Question 2 continues on the next page

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2 (d) Study **Figure 5**. **Figure 5** shows the number of powerful tropical storms in the Atlantic Ocean each year.

Figure 5



2 (d) (i) Complete **Figure 5**.

Use the information below.

Powerful tropical storms in 2005 = 5

(1 mark)

2 (d) (ii) Describe the changes to the numbers of powerful tropical storms between 1980 and 2005 as shown in **Figure 5**.

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(4 marks)



2 (e) Suggest **one** reason why the number of tropical storms may change in the future.

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(2 marks)

15

Turn over for the next question

Turn over ►



Total for this question: 15 marks

3 (a) (i) Study **Figure 6**, on the insert. **Figure 6** shows information about wildfires in the state of Victoria, Australia.

Complete the sentences below.

Circle the correct answer in **each** set of brackets.

On 30 January 2009, the maximum temperature recorded in Victoria was [**40°C** / **45°C** / **50°C**].

On each day between 1 February and 7 February 2009, the maximum temperature in Victoria was over [**25°C** / **30°C** / **35°C**].

On 9 February 2009, most wildfires happened in the [**south west** / **north west** / **south east**] of Victoria.

On 9 February 2009, the town of [**Hamilton** / **Ballarat** / **Warragul**] was at risk from wildfires.

(4 marks)

3 (a) (ii) 'A wildfire is a completely natural hazard.'

Do you agree?

Tick the box of your choice.

Yes No

Give reasons for your choice. Use **Figure 6** and your own knowledge.

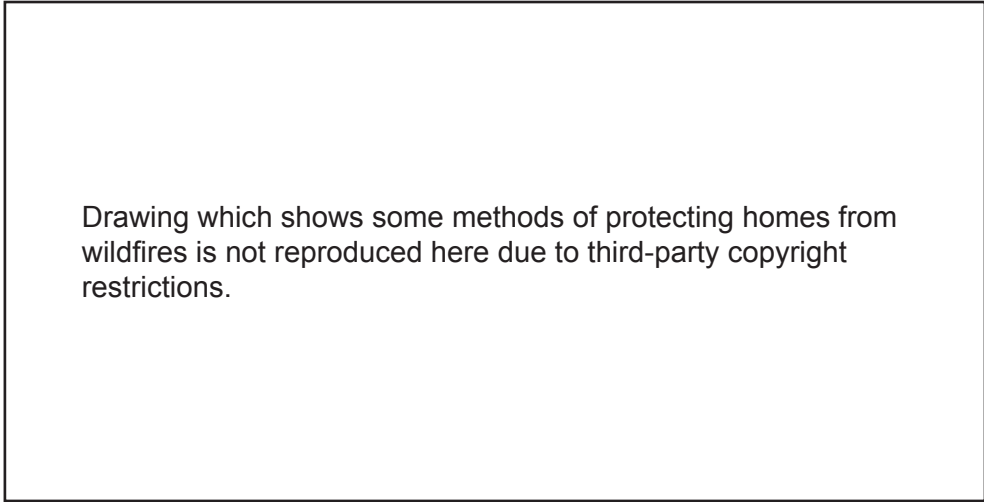
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Total for this question: 8 marks

4 Study **Figure 7**. **Figure 7** shows some methods of protecting homes from wildfires.

Figure 7



4 (a) The methods shown in **Figure 7** help people to protect their homes from wildfires.

Suggest how **two** of these methods protect homes.

1

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2

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(2 marks)



4 (b) Study **Figure 8**. **Figure 8** shows a method of fighting wildfires.

Figure 8



Suggest how the method, shown in **Figure 8**, can help to reduce wildfire damage.

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(2 marks)

Question 4 continues on the next page

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4 (c) Describe how people could prepare for **one** of the following hazards:

a volcanic eruption

a tropical storm

Chosen hazard

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(4 marks)

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End of Section A



Turn over for Section B

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Answer **either** Section A **or** Section B.

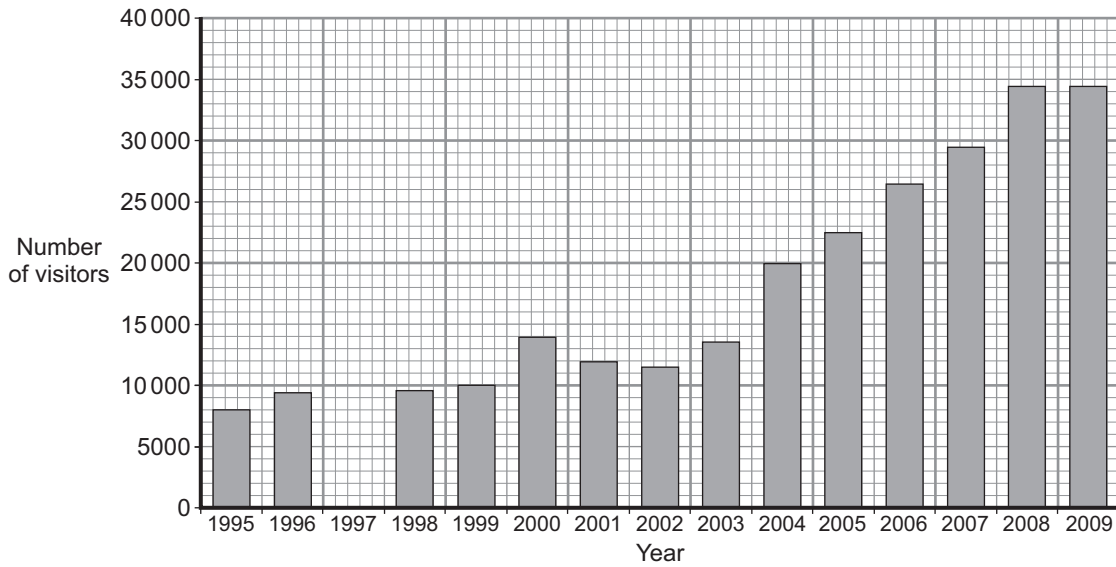
Section B – The Challenge of Extreme Environments

Use case studies to support your answers where appropriate.

Total for this question: 15 marks

5 (a) Study **Figure 9**. **Figure 9** shows the number of visitors to Antarctica (1995–2009).

Figure 9



5 (a) (i) Complete **Figure 9**.

Use the information below.

Number of visitors to Antarctica in 1997 = 8000

(1 mark)

5 (a) (ii) Describe the main change to the number of visitors to Antarctica between 1995 and 2009 as shown in **Figure 9**.

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(2 marks)



5 (b) (i) Study **Figure 10**, on the insert. **Figure 10** shows the top 10 destinations visited in Antarctica in 2008 and average monthly temperatures at three places in Antarctica.

Complete the sentences below.

Circle the correct answer in **each** set of brackets.

The lowest average monthly temperature at Vostok is [**2°C** / **-28°C** / **-68°C**].

At Rothera Point, the average monthly temperature is below 0°C for [**6** / **9** / **12**] months of the year.

The Lemaire Channel is the most [**northerly** / **southerly** / **easterly**] destination for visitors in the top 10.

The most popular destination for visitors is [**Deception Island** / **Cuverville Island** / **Goudier Island**].

(4 marks)

5 (b) (ii) Suggest why all of the top 10 destinations visited in Antarctica are located on and around the Antarctic Peninsula.

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(2 marks)

5 (b) (iii) Give **two** factors that affect the temperatures at the South Pole.

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(2 marks)

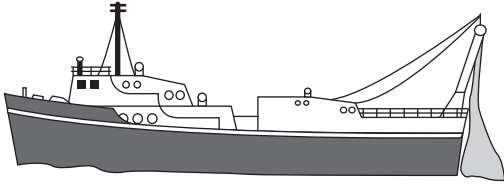
Question 5 continues on the next page

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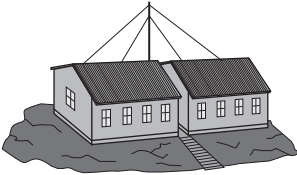


5 (c) Study Figure 11. Figure 11 shows some human activities in Antarctica.

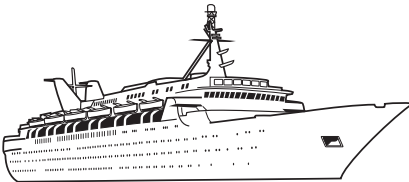
Figure 11



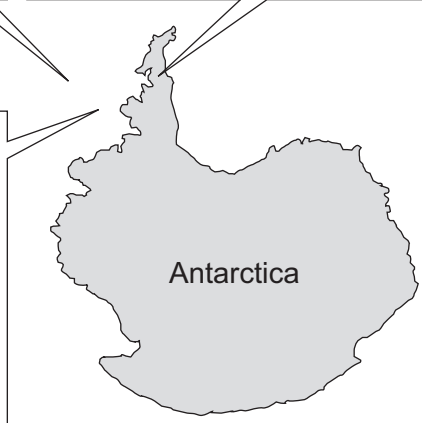
Many countries catch fish and krill in the oceans surrounding Antarctica.



There are 65 scientific research bases in Antarctica.



Many travel companies run holidays to Antarctica. The most popular activities are cruising, ice walking, kayaking, scuba diving and visiting scientific research bases.



Describe the effects of human activities on the environment of Antarctica.

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(4 marks)

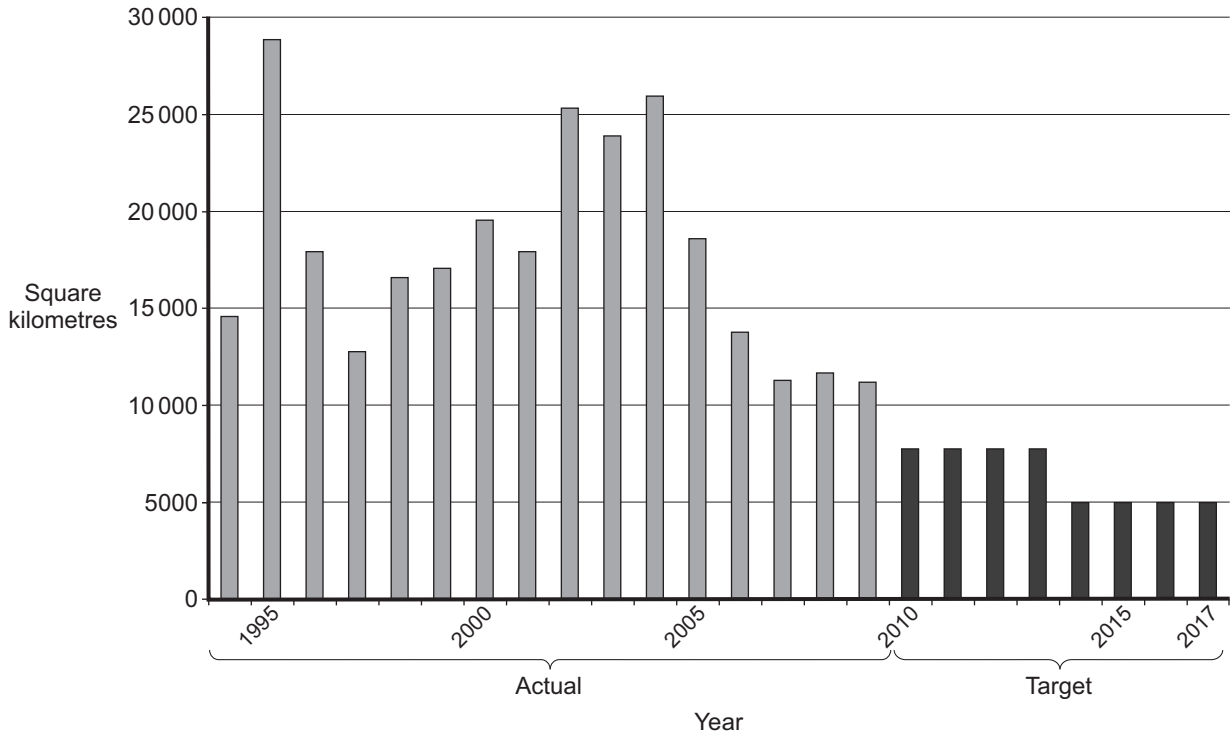
15



Total for this question: 13 marks

6 Study **Figure 12**. **Figure 12** shows the amounts of deforestation in the Amazon region of Brazil, between 1994–2009 (actual) and 2010–2017 (targets).

Figure 12



6 (a) Use **Figure 12** to complete the paragraph below.

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

- | | | |
|-------------|-----------------|-------------|
| 2500 | decrease | 2002 |
| 5000 | increase | 1995 |

The greatest amount of land was deforested in After 2004

the amount of deforestation per year started to

From 2014 the target figure for the amount of land that is allowed to be deforested is square kilometres per year.

(3 marks)

Question 6 continues on the next page

Turn over ►



6 (b) (iv) Suggest how use of the tropical rainforest environment can provide opportunities for economic development.

Use **Figure 13** and your own knowledge.

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(4 marks)

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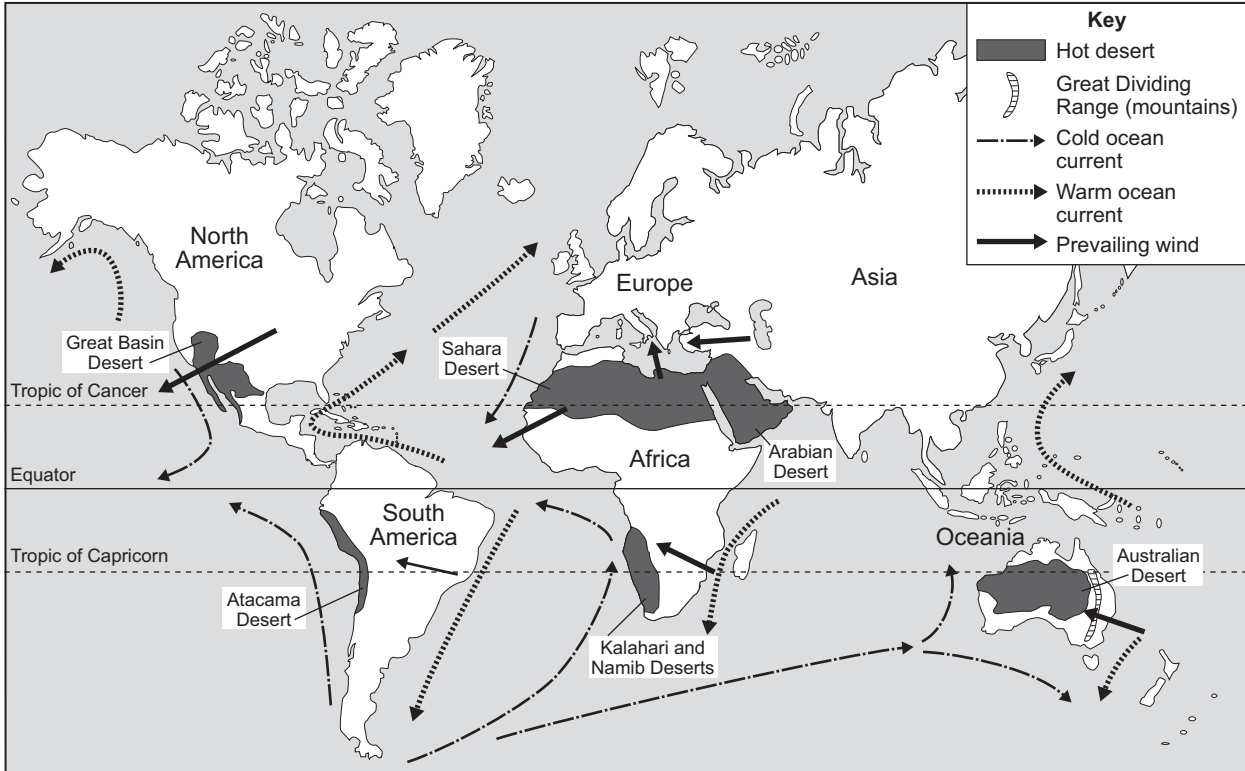
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Total for this question: 13 marks

7 (a) Study Figure 14. Figure 14 shows some of the world's hot desert areas and factors affecting rainfall in hot desert areas.

Figure 14



7 (a) (i) Which lines of latitude shown in Figure 14 pass through the world's hot desert areas?

.....

.....

(1 mark)



7 (a) (ii) The following statements describe factors affecting the formation of hot desert areas.

Use **Figure 14** to decide which **three** of the following statements are correct.

Tick the **three** correct boxes.

The Sahara Desert is in an area where the winds blow from the sea.

The Atacama Desert is in a coastal area where a cold current runs offshore.

The Sahara Desert is in an area where the winds blow from the land.

There are many hot deserts along the eastern edges of continents.

There are many hot deserts along the western edges of continents.

The Atacama Desert is in a coastal area where a warm current runs offshore.

(3 marks)

7 (a) (iii) The factors affecting the formation of a hot desert area are described below.

The winds blow across the ocean. When the winds reach land, the winds rise over mountains. The winds cool and there is rainfall. When the winds travel inland, the winds become drier and a rainshadow area develops.

Name the hot desert, shown in **Figure 14**, that fits this description.

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(1 mark)

7 (b) Give **one** reason why temperatures are high in hot desert areas.

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(2 marks)

Question 7 continues on the next page

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8 (b) Describe how the problems caused by human activities in **one** of the following environments could be reduced:

an area of tropical rainforest

an area at the edge of a hot desert

Chosen environment
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(4 marks)

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9

END OF QUESTIONS



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- Question 1 Figure 1: US Geological Survey, Department of the Interior/USGS
 Question 1 Figure 2: Map: US Geological Survey, Department of the Interior/USGS
 Question 2 Figure 3: NASA
 Question 2 Figure 5: wunderground.com
 Question 3 Figure 6: Map of Victoria wildfires: www.aus-emaps.com
 Temperature graph: Australian Bureau of Meteorology, Victoria Climate Services Centre.
 Question 4 Figure 7: Sheriff's Office, Claiborne Parish, Louisiana, USA.
 Question 4 Figure 8: Sgt 1st Class Steven Petibone, NY National Guard.
 Question 5 Figure 9: International Association of Antarctica Tour Operators (IAATO).
 Question 5 Figure 10: Coolantarctica.com
 Question 6 Figure 12: Rhett@mongabay.com
 Question 6 Figure 13: Rhett@mongabay.com
 Question 7 Figure 15: Rhett@mongabay.com
 Question 8 Figure 16: Alaska Department of Natural Resources.

