

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  
Specimen Paper 2013 SPaG

# Geography (Specification B)

**40352H**

## Unit 2: Hostile World

**H**

Date: Time:

**You will need no other materials:**

- the insert ( enclosed)
- a ruler

You may use a calculator.

**Time allowed**  
1 hour

### Instructions

- Use black ink or black ball-point pen.
- 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. Answers written in margins or on blank pages will not be marked.
- Do all rough work in this book. Cross through any work you do not want to be marked.

### Information

- The maximum mark for this paper is 56.
- The marks for questions are shown in brackets
- You will be marked on your ability to:
  - use an appropriate form and style of writing
  - organise relevant information clearly and coherently
  - use specialist vocabulary where appropriate
- Spelling Punctuation and Grammar will be assessed in questions 1(d), 3(b), 4(c) and 6(b). The marks available for Spelling, Punctuation and Grammar (**SPaG**) are shown below the mark allocation for each question.



**SECTION A - LIVING WITH NATURAL HAZARDS**

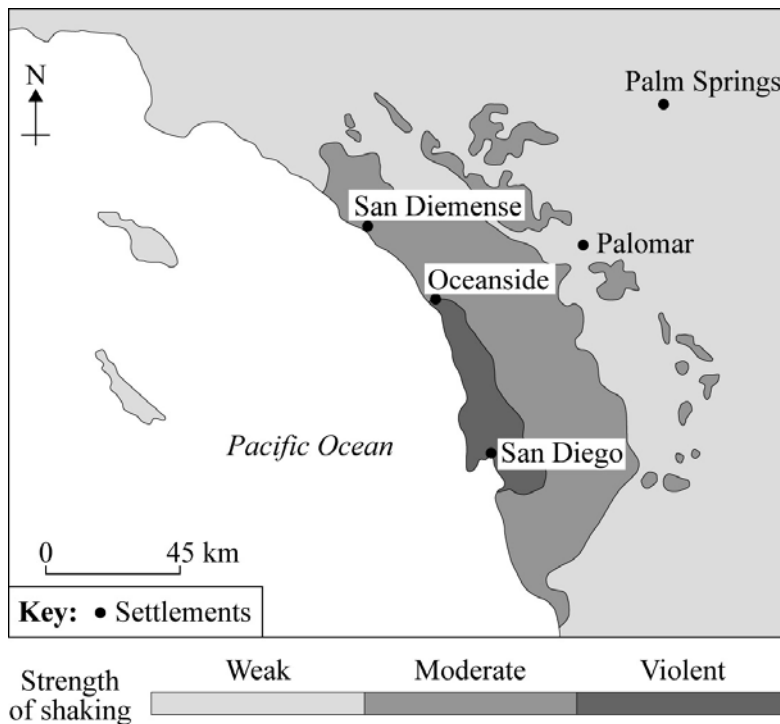
Answer **either** Section A **or** Section B

**Total for this question: 19 marks**

**1 Tectonic Hazards**

**1** Study **Figure 1**, which gives information about an earthquake in California (USA).

**Figure 1**



**1 (a)** Describe the pattern of earthquake shaking showing in **Figure 1**.

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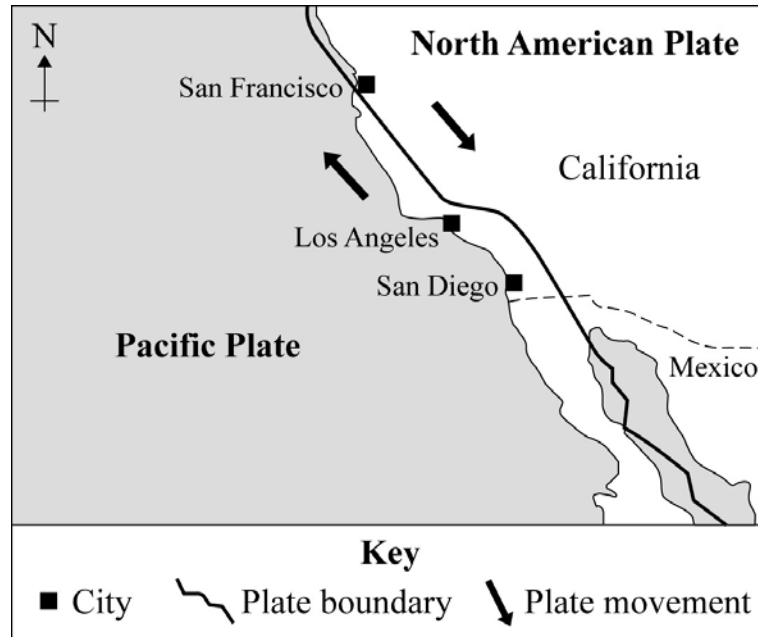
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(2 marks)



1 (b) Study **Figure 2**, a map of plate boundaries in North America.

**Figure 2**



Suggest the cause of the earthquake in California.

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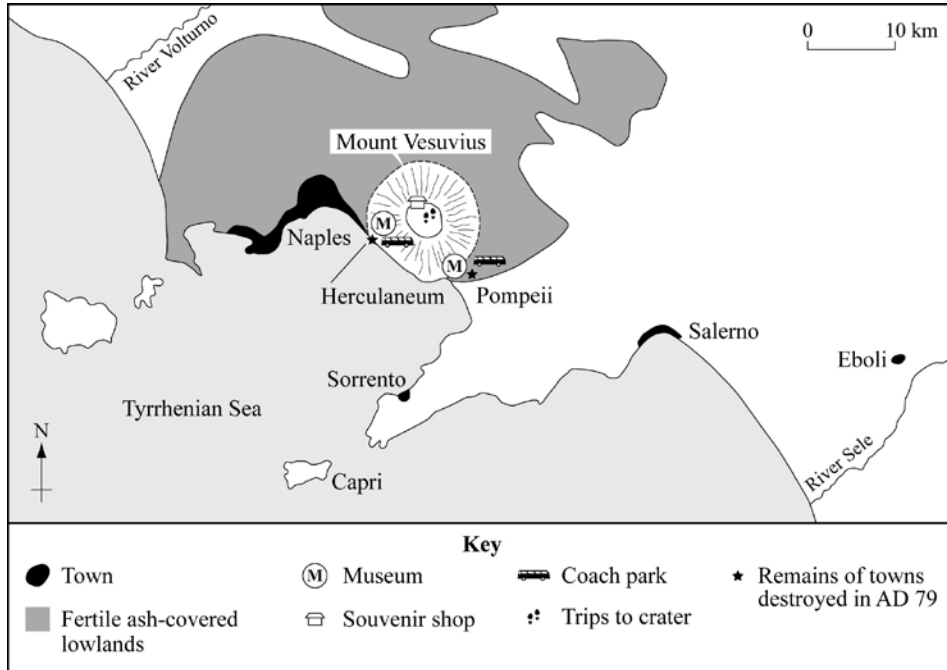
(4 marks)

**Question 1 continues on the next page**



1 (c) Study **Figure 3**, which shows the area around Mount Vesuvius, a volcano in Italy.

**Figure 3**



Despite the risks, people continue to live close to Mount Vesuvius. With the help of **Figure 3**, suggest why.

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(4 marks)

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**1 (d)** Describe ways in which the damaging effects of **either** an earthquake **or** a volcanic eruption may be reduced.

Chosen hazard .....

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(6 marks)

SPaG: 3 marks

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Turn over for the next question



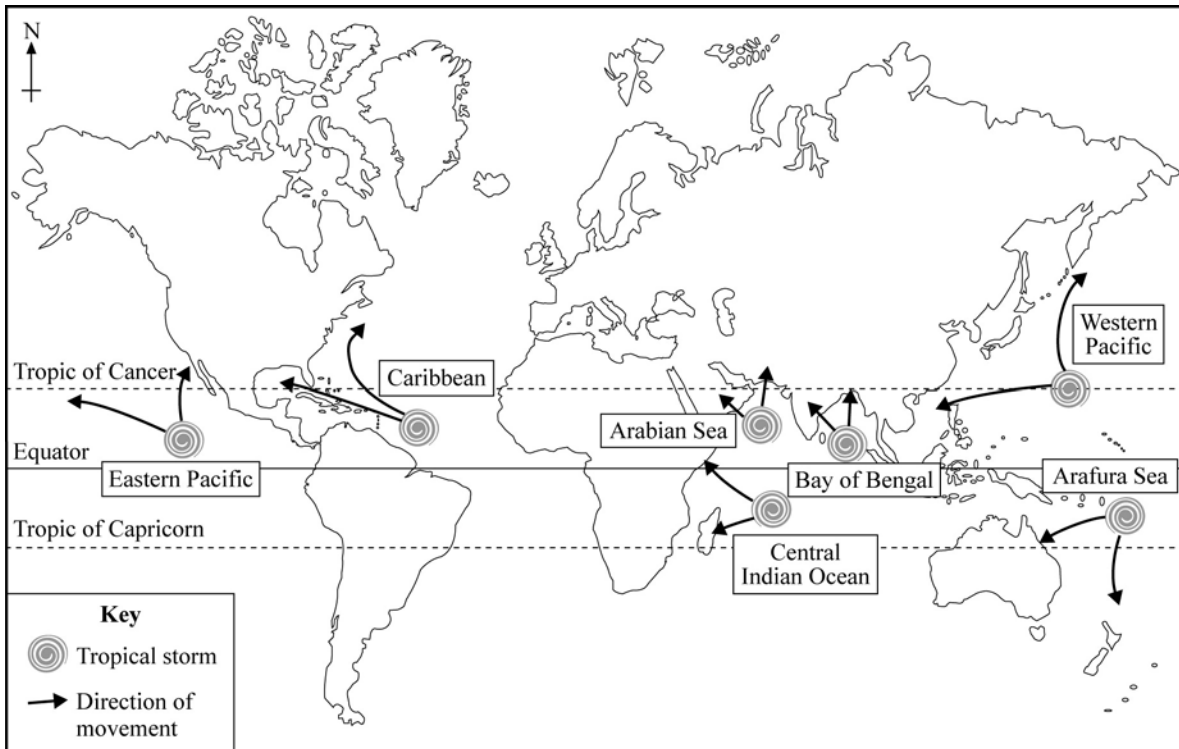
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**Total for this question: 23 marks**

**2 Tropical Storms**

**2** Study **Figure 4**, which shows the world distribution of tropical storms.

**Figure 4**



**2 (a)** Describe the distribution of tropical storms.

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(2 marks)



2 (b) Study **Figure 5** on the insert, which shows the path taken by a tropical storm (Hurricane Ivan) in September 2004.

2 (b) (i) Complete the following table to show the direction and strength of Hurricane Ivan.

Date	Direction of Movement	Strength
September 4 <sup>th</sup>		
September 10th		

(4 marks)

2 (b) (ii) Suggest reasons for the changes in strength of the tropical storm (Hurricane Ivan) between the 2<sup>nd</sup> and 5<sup>th</sup> September 2004.

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(4 marks)

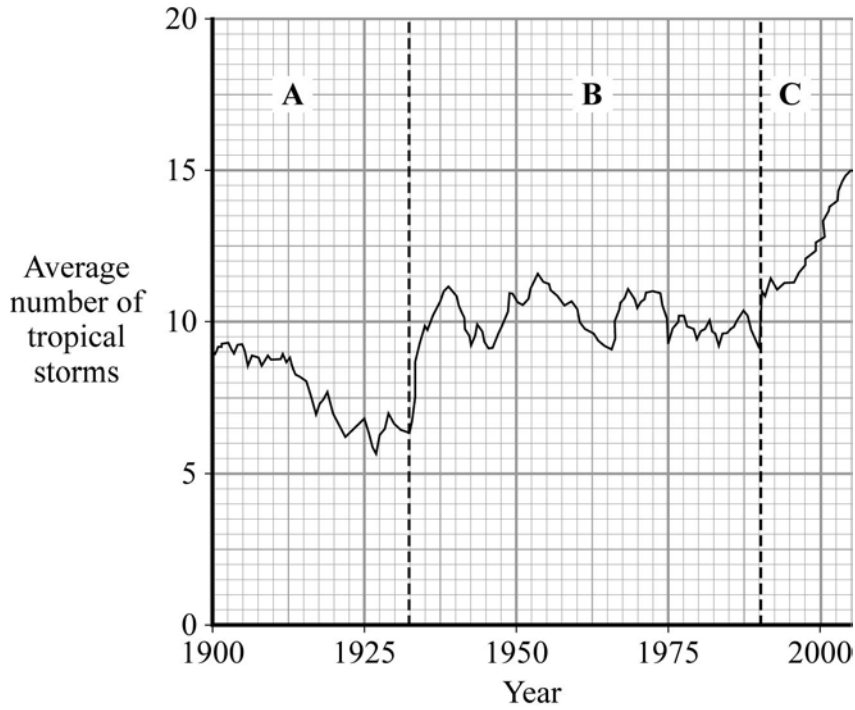
**Question 2 continues on the next page**



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2 (c) Study **Figure 6**, which shows the average number of tropical storms in the Atlantic Ocean between 1900 and 2005.

**Figure 6**



2 (c) (i) Describe the changes to the average number of tropical storms in the Atlantic Ocean between 1900 and 2005.

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(3 marks)





2 (c) (ii) Suggest reasons for your answer to (c)(i) above.

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(4 marks)

**Question 2 continues on the next page**



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2 (d) Study **Figure 7**, which shows information on the USA and Myanmar (Burma).

**Figure 7**

Indicator	Myanmar	USA
Birth rate (per 1000)	17	14
Death rate (per 1000)	9	8
GDP (per person)	US\$ 1 900	US\$ 46 000
Life expectancy (years)	62	78
Literacy rate (per cent)	90	99
Employment structure (per cent)	Primary 54 Secondary 10 Tertiary 36	Primary 2 Secondary 20 Tertiary 78
Internet users (per cent)	0.6	68
Mobile phone users	0.4	77

With the help of **Figure 7** explain why the people of the USA may be better prepared for a tropical storm than the people of Myanmar.

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**Total for this question: 14 marks**

**3 Wildfires**

**3 (a)** Give **two** ways in which local people and the authorities might respond to a wildfire.

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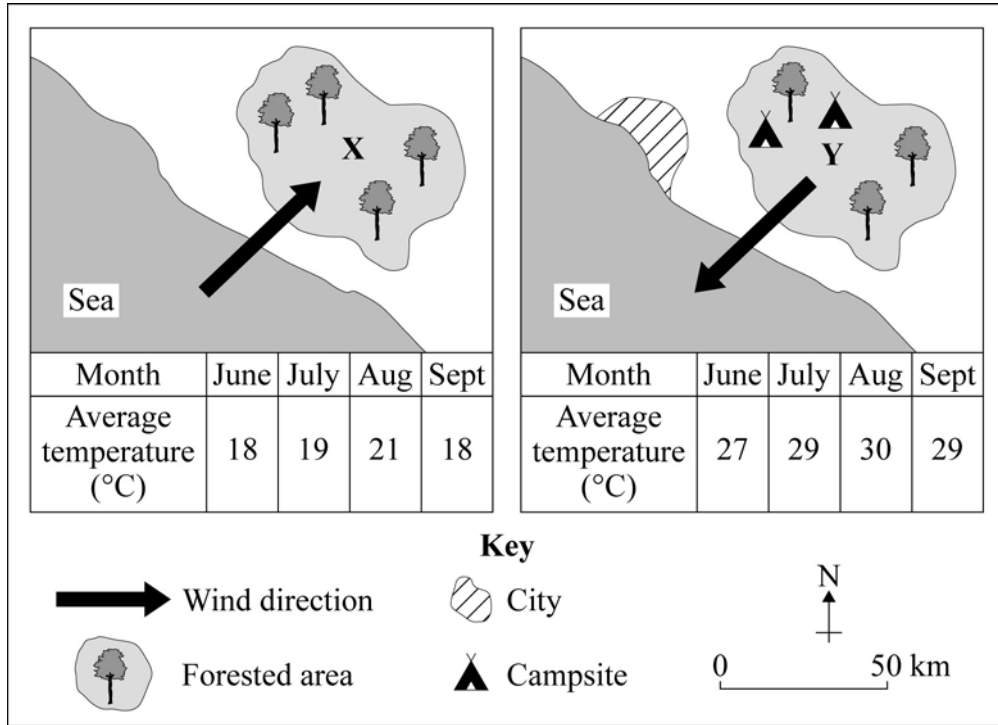
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*(2 marks)*



3 (b) Study **Figure 8**, which shows two forested areas and information about summer temperatures in each.

**Figure 8**



“Unlike earthquakes, volcanoes and tropical storms, wildfires are mainly caused by the actions of people.”

Do you agree with this statement? Tick the box of your choice

Yes

No

Give reasons for your decision (you may use any of the resources to help you answer this question).

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**SECTION B - THE CHALLENGE OF EXTREME ENVIRONMENTS**

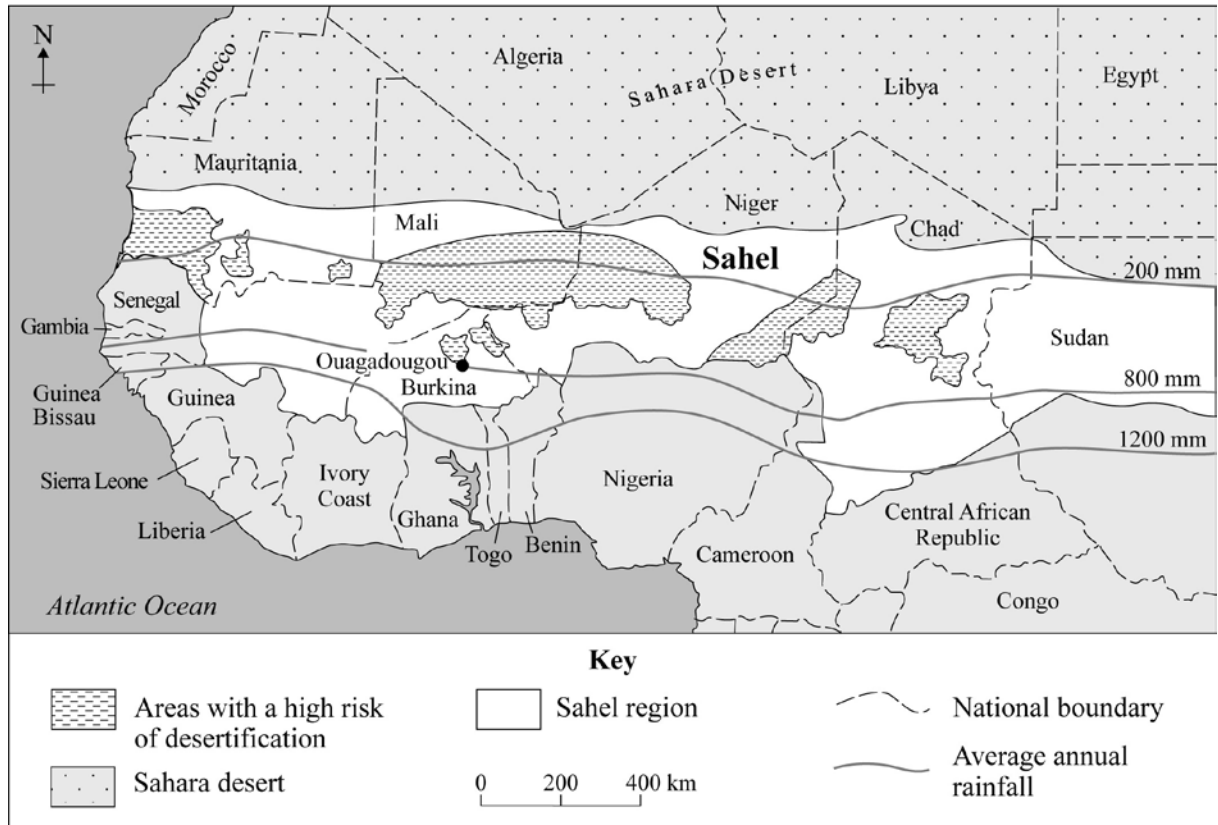
Answer **either** Section A **or** Section B

**Total for this question: 19 marks**

**4 The Hot Desert Environment**

**4 (a)** Study **Figure 9**, a map of the Sahel region of Africa.

**Figure 9**



**4 (a) (i)** Using evidence from **Figure 9**, suggest why the risk of desertification increases as you go north from Ouagadougou.

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*(2 marks)*



**4 (a) (ii)** Describe the effects that global climate change may have on an area such as the Sahel.

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*(4 marks)*

**4 (b)** Suggest why too many people living in an area such as the Sahel can lead to desertification. Use an example(s) from an area you have studied.

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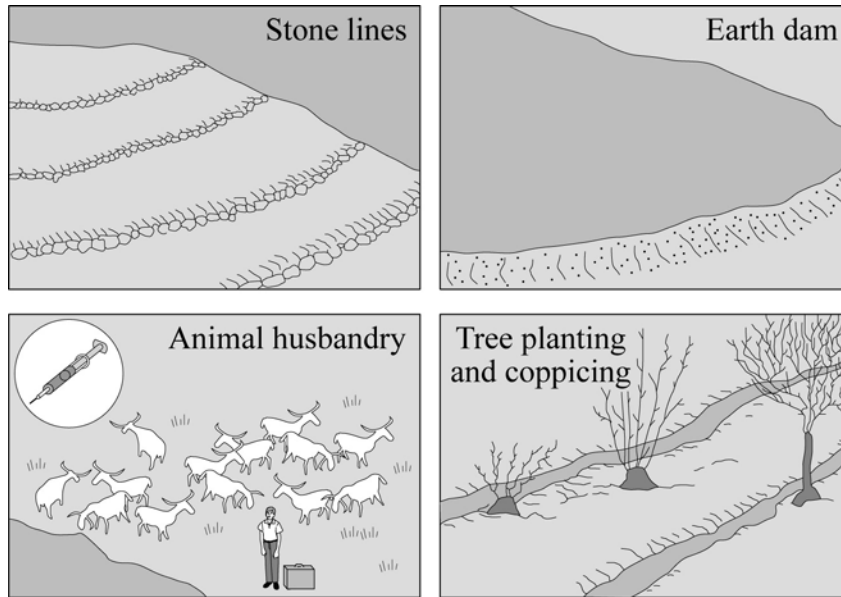
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4 (c) Study **Figure 10**, some methods of reducing desertification.

**Figure 10**



Suggest how **one** of the methods shown in **Figure 10**, reduces the problem of desertification and why it is suitable for a country with a low level of economic development.

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(6 marks)  
SPaG: 3 marks



**Total for this question: 23 marks**

**5 The Tropical Rainforest Environment**

**5 (a)** Study **Figure 11**, on the insert, a map of climate in different parts of the world. Describe the distribution of tropical rainforests.

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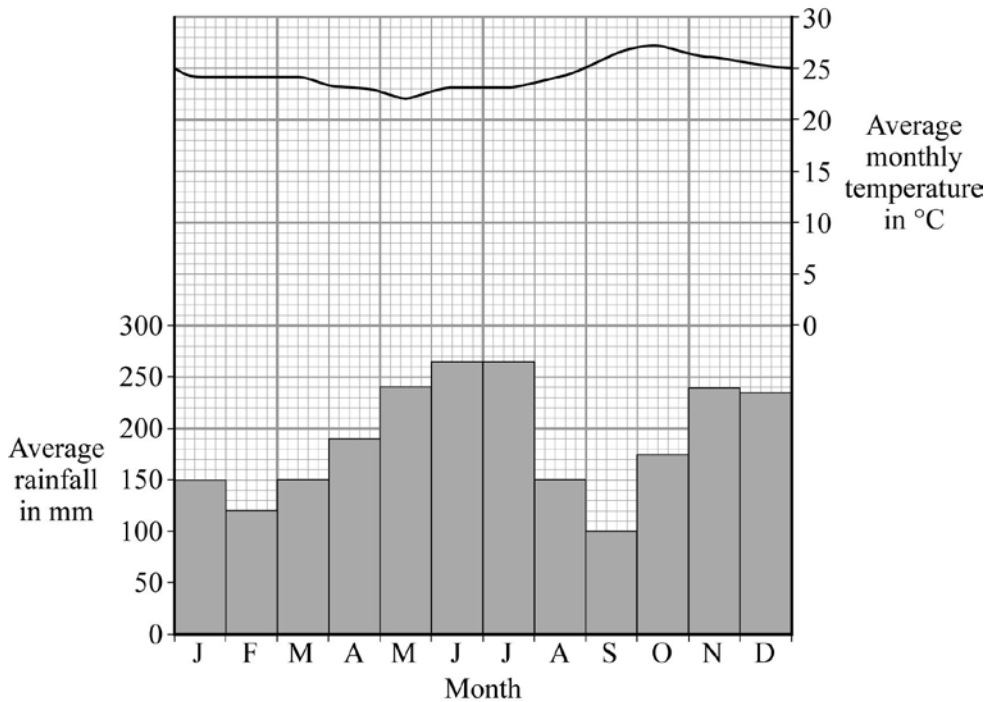
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*(2 marks)*

**5 (b)** Study **Figure 12**, a climate graph for an area of tropical rainforest in Amazonia, Brazil.

**Figure 12**



Describe the nature of the climate shown in **Figure 12**. Suggest how it leads to the growth of tropical rainforest.

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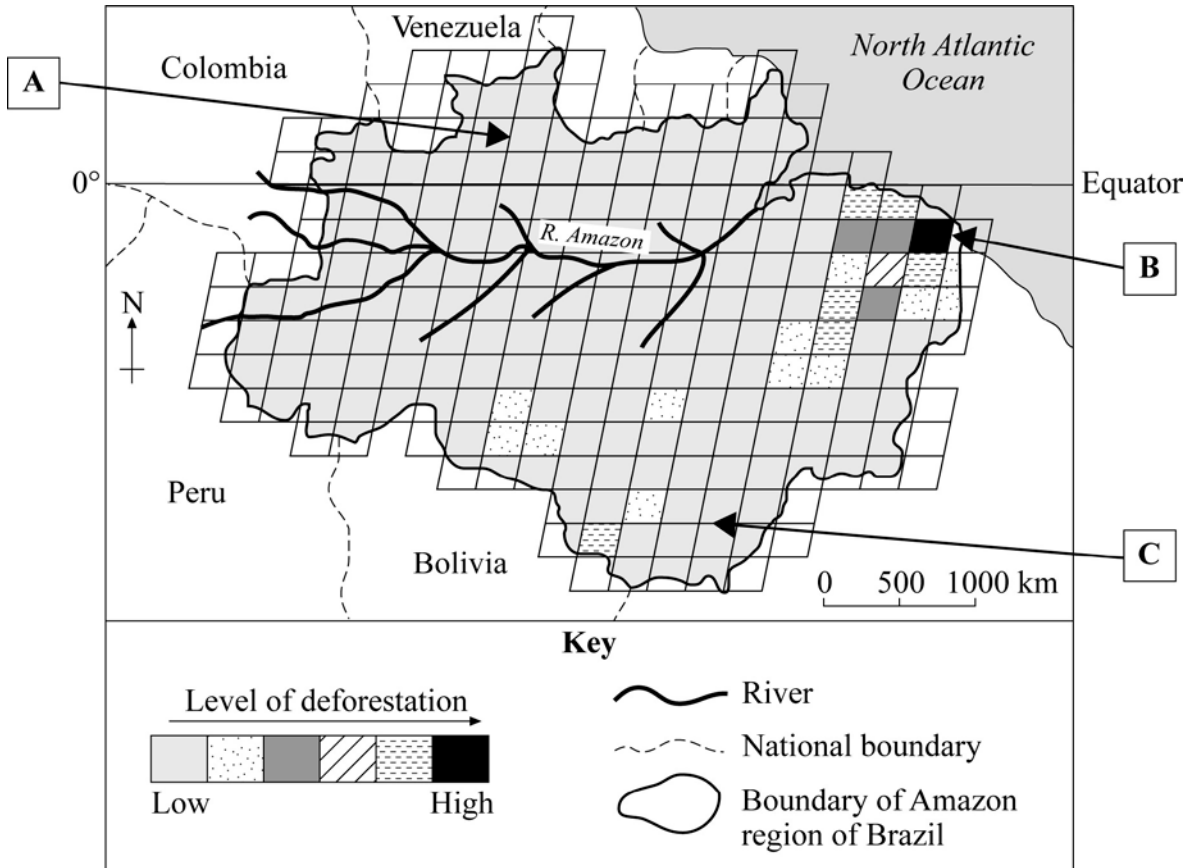
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**Question 5 continues on the next page**



5 (c) Study **Figure 13**, which shows deforestation in Amazonia, Brazil.

**Figure 13**



What does **Figure 13** tell us about levels of deforestation in Amazonia?

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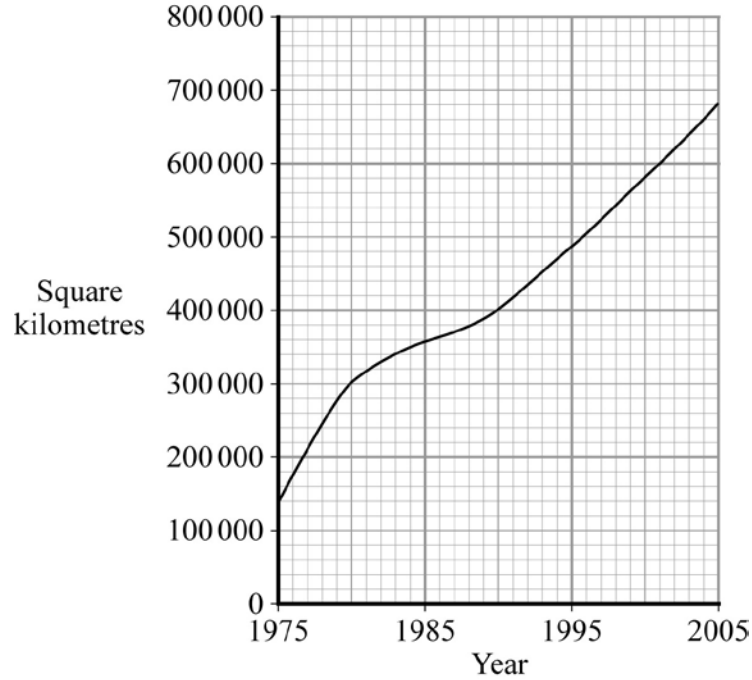
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(2 marks)



5 (d) Study **Figure 14**, a graph to show deforestation rates in Amazonia (1975 to 2005).

**Figure 14**



5 (d) (i) Describe the changes to the amount of tropical rainforest in Amazonia between 1975 and 2005.

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(2 marks)

5 (d) (ii) Suggest **two** reasons for your answer to (d)(i) above.

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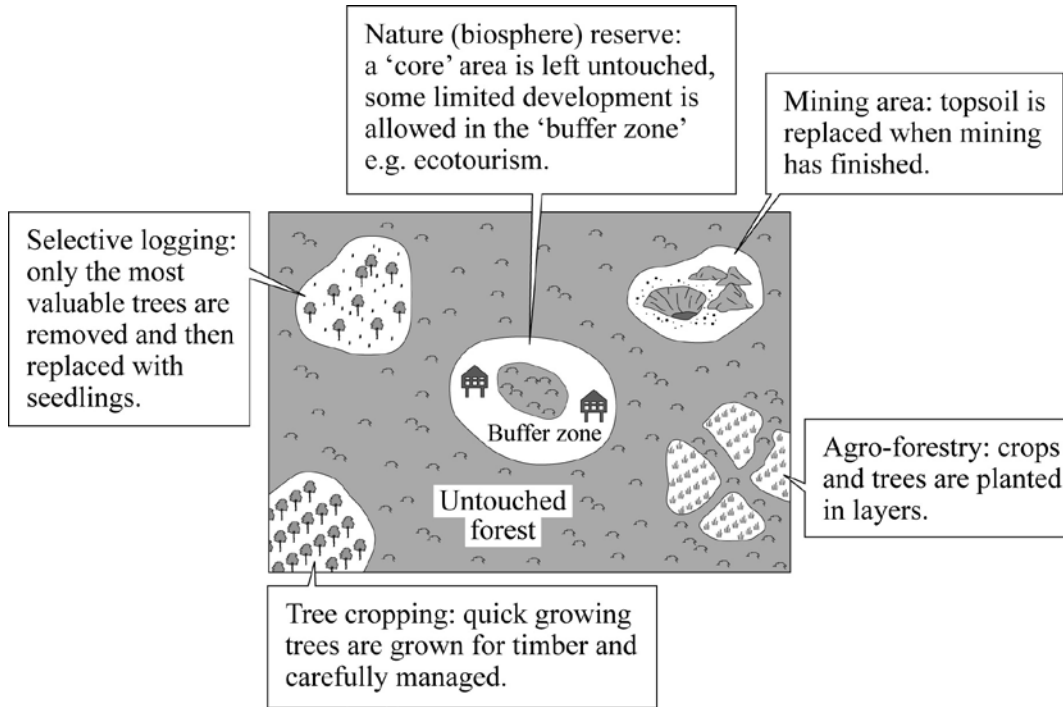
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5 (e) Study **Figure 15**, methods of reducing damage to the tropical rainforest environment.

**Figure 15**



With the help of **Figure 15**, explain how damage to the tropical rainforest environment might be reduced. Use an example(s) from an area that you have studied.

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(6 marks)

5 (f) Give **three** reasons why it is important to conserve areas of tropical rainforest.

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3 .....  
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(3 marks)

**Turn over for the next question**

23



**Total for this question: 14 marks**

**6 The Cold Environment**

**6 (a)** Study **Figure 16**, a newspaper article about an oil spill in Alaska.

**Figure 16**

**11 March 2006**  
**Alaska hit by massive oil spill**  
An oil spill discovered at Prudhoe Bay is the largest ever on Alaska's North region. Up to one million litres of crude oil leaked from a corroded pipeline and covered about one hectare of the snow-covered tundra.

Give **two** ways in which people might respond to an oil spill.

- 1 .....
- .....
- 2 .....
- .....

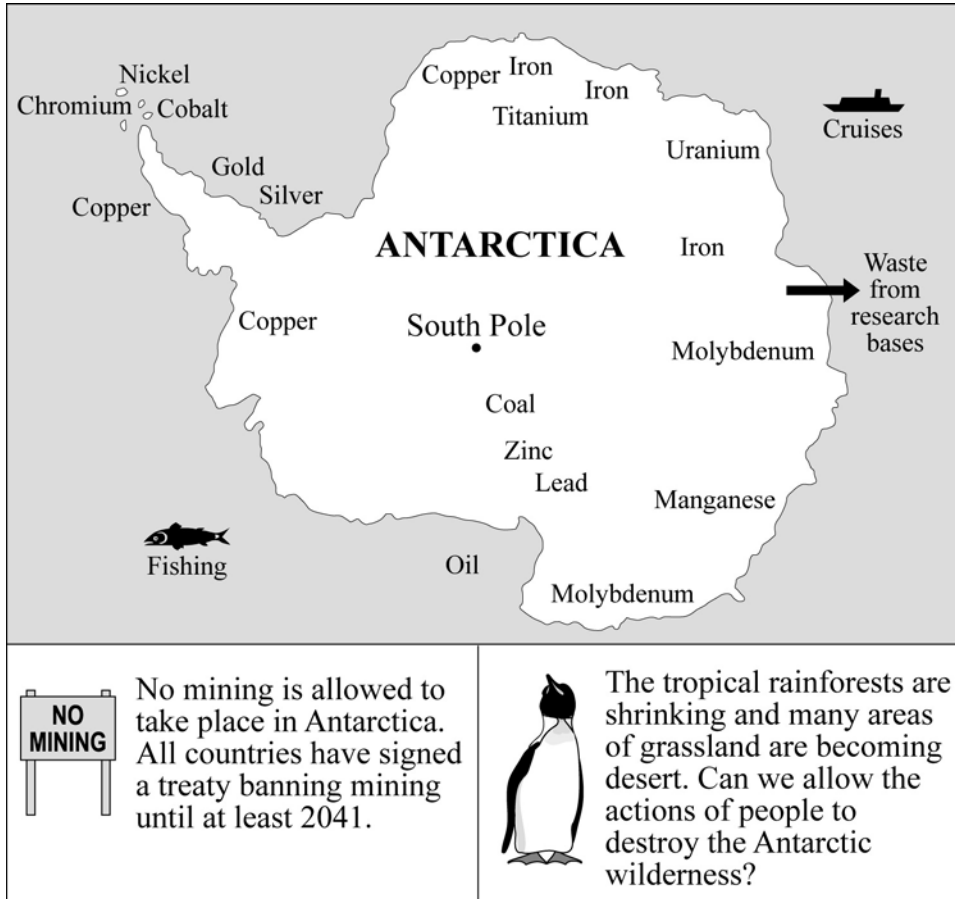
*(2 marks)*





6 (b) Study **Figure 17**, which shows mineral deposits and some activities in Antarctica.

**Figure 17**



Antarctica must be protected against development.

Do you agree with this statement? Tick the box of your choice:

Yes

No

Give reasons for your decision (you may use any of the resources to help you answer this question).

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SPaG: 3 marks

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**END OF QUESTIONS**



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Question 1	Figure 3	T W RANDLE, <i>Geographical Studies in Western Europe</i> , Pearson Education
Question 2	Figure 5	University of Wisconsin – CIMSS TC Group
Question 2	Figure 6	New Scientist
Question 2	Figure 7	CIA <i>The World Factbook</i>
Question 5	Figure 11	Keith Flinders, David Gardner, Greg Hart, Nic Howes, John Belfield, John Pallister and Brian Smith, <i>A New Introduction to Geography for OCR Syllabus A</i> , Hodder Murray, 2001, © 2001, Keith Flinders, David Gardner, Greg Hart, Nic Howes, John Belfield, John Pallister and Brian Smith. Reproduced by permission of John Murray (Publishers) Ltd.

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