Centre Number						Candidate Number				
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Other Names										
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For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
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8	
TOTAL	

General Certificate of Secondary Education
Foundation Tier
June 2011

Geography (Specification B)

40352F

F

Unit 2 Hostile World

Friday 17 June 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 (Questions 1 to 4) **or** Section B (Questions 5 to 8).
- 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.

Do not write outside the box

Answer **either** Section A (Questions 1 to 4) **or** Section B (Questions 5 to 8).

Section A – Living with Natural Hazards

Use your case studies to support your answers where appropriate.

Total for this question: 10 marks

1 (a) Study **Figure 1** on the insert. **Figure 1** shows natural hazards in the United States.

1 (a) (i) The following statements describe the distribution of areas in the United States at risk from wildfires.

Which **two** statements are true?

Tick the **two** correct boxes.

Many areas with a very high risk of wildfires are found in the east of the United States.	
Most areas with a low risk of wildfires are found in the east of the United States.	
Many areas with a very high risk of wildfires are found in the west of the United States.	
Most areas with a low risk of wildfires are found in the west of the United States.	

(2 marks)

1 (a) (ii) Complete the sentences below.

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

There are no active volcanoes in the **[north west / south west / north east]** of the United States.

Most of the areas with the highest risk of earthquakes are in the

[north west / south west / north east] of the United States.

The area with a high risk of tropical storms is the

[north west / south west / south east] of the United States.

(3 marks)

Do not write outside the box

1 (a) (iii) Three states are named on **Figure 1**.

Which state is in a multi-hazard area?

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(1 mark)

1 (b) Explain the causes of **either** earthquakes **or** volcanic eruptions.

Chosen natural hazard .....

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Total for this question: 9 marks

2 (a) Study **Figure 2** on the insert. **Figure 2** gives information about Mount St. Helens, an active volcano in the United States.

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

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

west	**Washington**	**25**
east	**Oregon**	**50**

Mount St. Helens is located in the state of ..... .

Mount St. Helens is ..... kilometres north east of the town of

Woodland and is 55 kilometres to the ..... of Exit 39 on Highway 5.

(3 marks)

2 (a) (ii) From **Figure 2**, give **two** ways in which people responded to the damage caused by the eruption of Mount St. Helens.

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(2 marks)

2 (b) Describe the advantages for local people of living in an area of volcanic activity.

Use **Figure 2** to help you.

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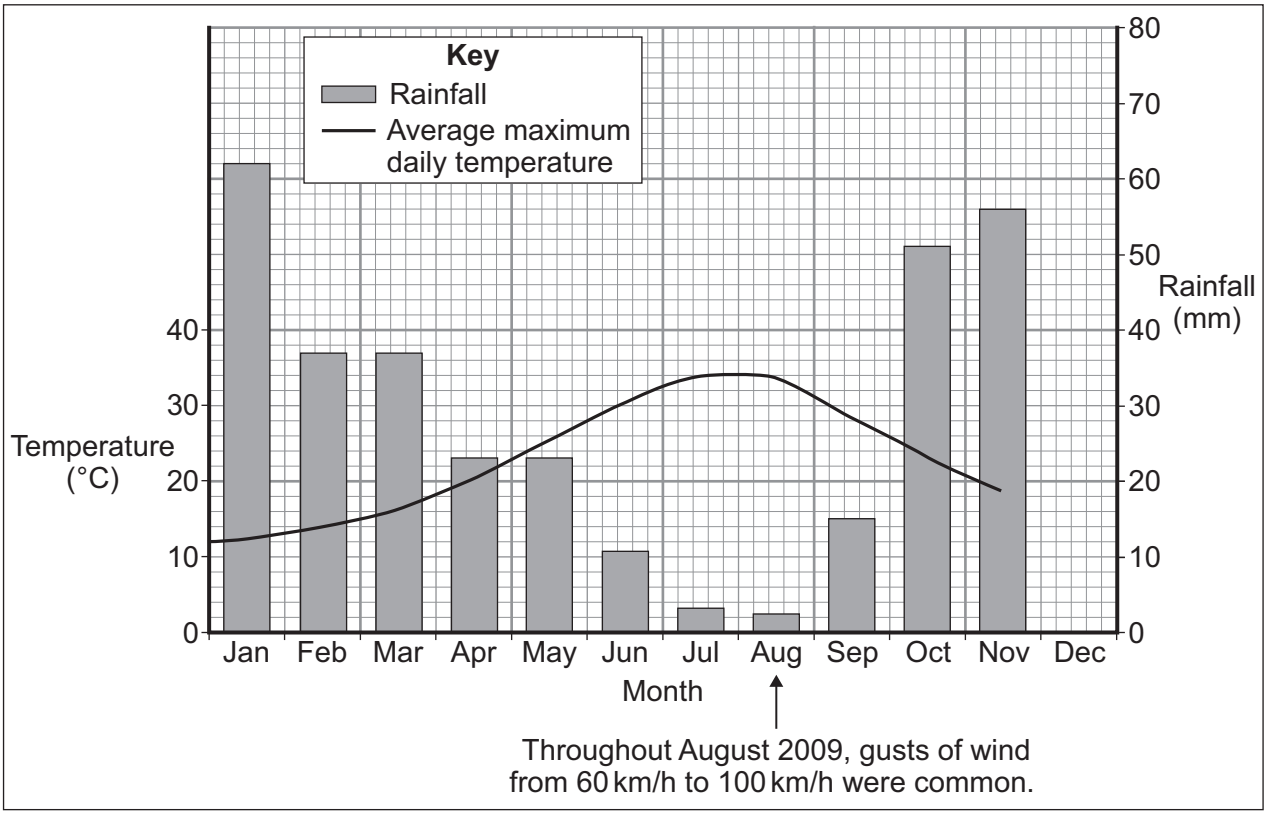
Total for this question: 15 marks

3 (a) Study **Figure 3**. **Figure 3** gives information about the climate of Greece (2009).

Figure 3



3 (a) (i) Complete **Figure 3**.

Use the information below.

Average maximum temperature in December = 14 ºC

Rainfall in December = 70 mm

(2 marks)

3 (a) (ii) Complete the sentences below.

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

The lowest average maximum daily temperatures were in **[January / May / August]**.

The annual range of temperature is **[12 / 22 / 32]** ºC.

The rainfall was over 50 mm in **[3 / 4 / 5]** months of the year.

The total annual rainfall was **[62 / 392 / 1092]** mm.

(4 marks)

Do not write outside the box

3 (b) In August 2009, wildfires damaged many areas in Greece.

Suggest **two** ways in which the climate helped these wildfires to develop.

Use **Figure 3** and your own knowledge.

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(4 marks)

Question 3 continues on the next page

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3 (c) Study **Figure 4**. **Figure 4** shows some methods used to reduce the damage from wildfires.

Figure 4

Explain how the damage from wildfires can be reduced.

Use **Figure 4** and your own knowledge.

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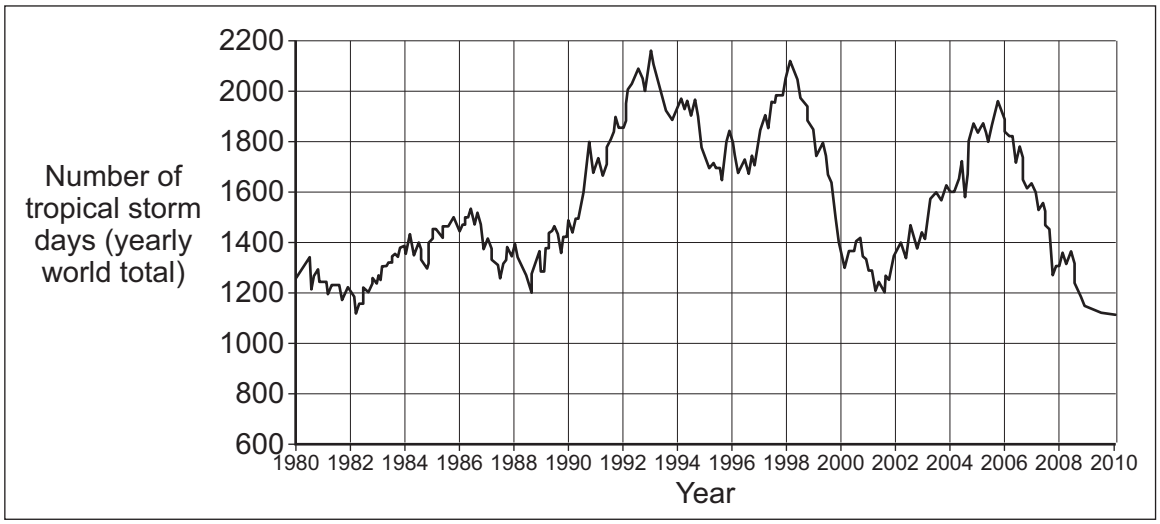
Total for this question: 16 marks

4 (a) Study **Figure 5.** **Figure 5** shows the total number of tropical storm days between 1980 and 2010.

Figure 5



4 (a) (i) Which year had the highest total number of tropical storm days?

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(1 mark)

4 (a) (ii) Describe the pattern of tropical storm days between 1980 and 2010 shown in **Figure 5.**

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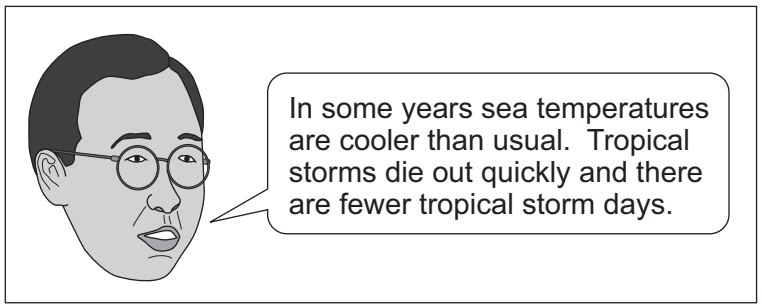
(2 marks)

Do not write outside the box

4 (a) (iii) Study **Figure 6** below. **Figure 6** gives information about tropical storms.

Figure 6



In which year could sea temperatures have been cooler than usual?

Use **Figure 5**.

Circle the correct answer.

1993 **1998** **2001**

(1 mark)

Question 4 continues on the next page

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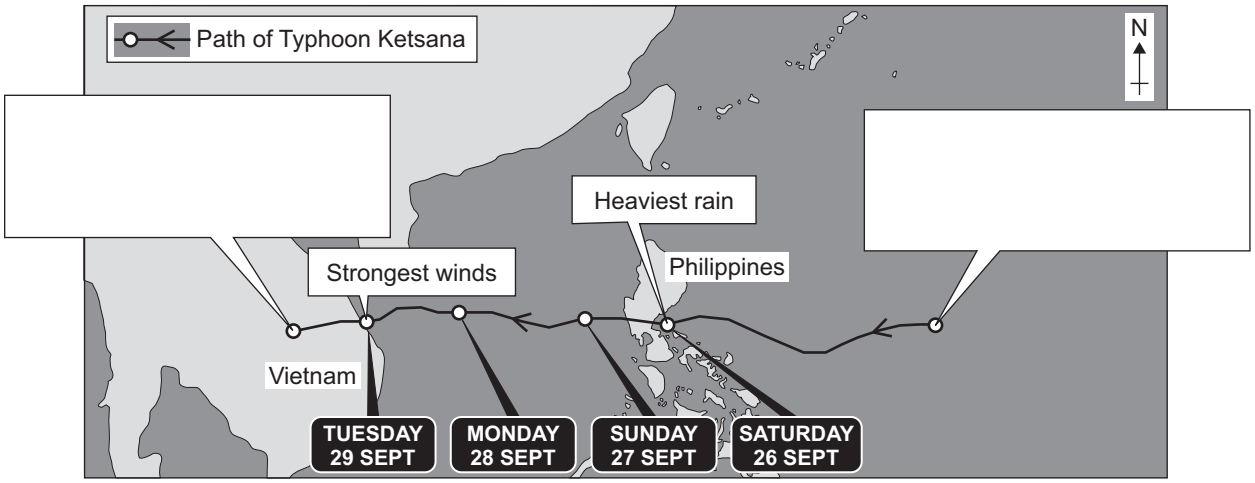
4 (b) Study **Figure 7**. **Figure 7** shows the path of a tropical storm (Typhoon Ketsana), 23 to 30 September 2009.

Figure 7



4 (b) (i) Complete the labels on **Figure 7**.

Choose the **two** correct labels from the list below.

Typhoon Ketsana forms over the ocean.

Typhoon Ketsana tracks northwards.

Typhoon Ketsana loses strength.

Typhoon Ketsana reaches the coast.

(2 marks)

4 (b) (ii) With the help of **Figure 7**, describe **two** effects of a tropical storm.

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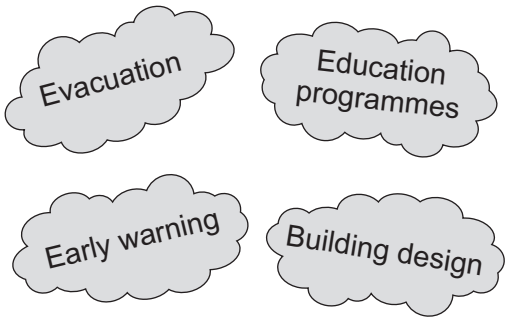
4 (c) Study **Figure 8**. **Figure 8** shows information about methods of protection from the effects of tropical storms, and indicators of development for two countries.

Figure 8

Methods of protection



Indicators of development

Indicator of development	More developed country	Less developed country
GNI ($ US per person)	48 000	520
Households with a television (%)	99	40
Secondary school enrolment (%)	97	42

GNI = Gross National Income

'Only more developed countries can protect themselves effectively from the damage caused by tropical storms.'

Do you agree?

Tick the box of your choice.

Yes ☐ No ☐

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

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End of Section A

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Answer **either** Section A (Questions 1 to 4) **or** Section B (Questions 5 to 8).

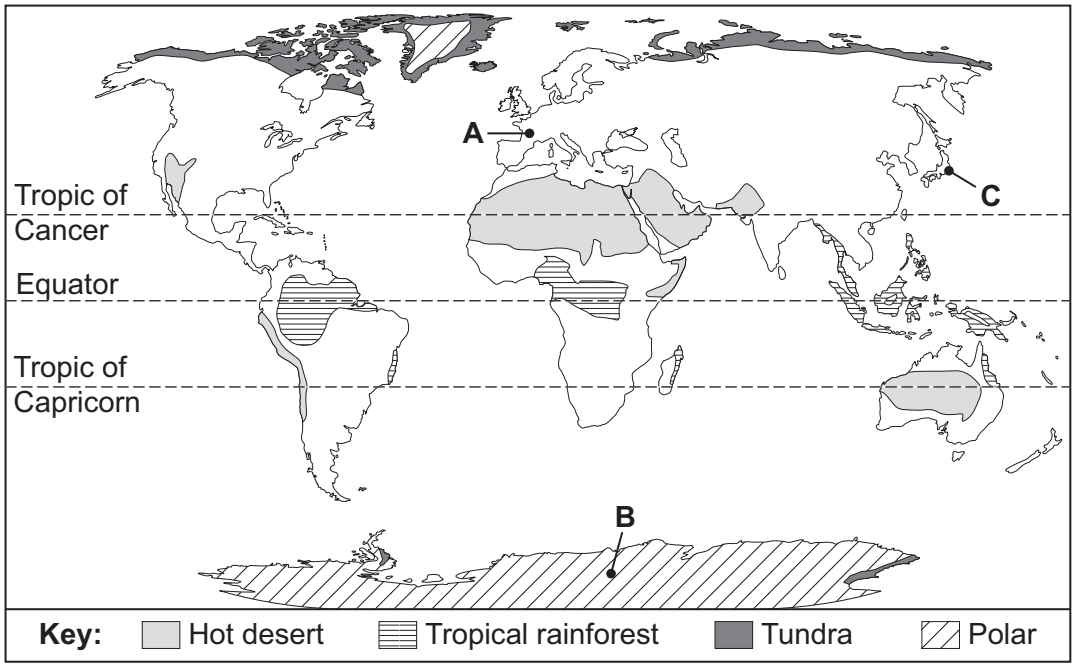
Section B – The Challenge of Extreme Environments

Use your case studies to support your answers where appropriate.

Total for this question: 10 marks

5 (a) Study **Figure 9**. **Figure 9** shows extreme environments in different parts of the world.

Figure 9



5 (a) (i) The following statements describe the distribution of areas of hot desert.

Which **two** statements are true?

Tick the **two** correct boxes.

All areas of hot desert are north of the Equator.	
No areas of hot desert are on the Equator.	
Many areas of hot desert are located on the Tropics.	
There are no areas of hot desert south of the Equator.	

(2 marks)

Do not write outside the box

5 (a) (ii) Complete the sentences below.

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

Polar environments are found in the **[lower / middle / higher]** latitudes.

Tundra environments are found in the **[centre / edges / west]** of continents.

Tropical rainforest environments are found in the **[polar / desert / equatorial]** regions.

(3 marks)

5 (a) (iii) Three places are shown on **Figure 9** as **A**, **B** and **C**.

Which place (**A**, **B** or **C**) is in an extreme environment?

..... *(1 mark)*

5 (b) Explain the reasons for the formation of **one** of the following:

- a hot desert environment
- a polar environment
- a tundra environment.

Chosen environment .....

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Total for this question: 9 marks

6 (a) Study **Figure 10** on the insert. **Figure 10** shows the area of sea ice in the Arctic in 2004 and 2007.

6 (a) (i) Complete the paragraph below.

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

6.5	**smaller**	**frozen**
4.5	**larger**	**open**

On 16 September 2007 the area of Arctic sea ice was much

..... than on 16 September 2004. The area of sea ice on

16 September 2007 was ..... million square kilometres. In

September 2007 many areas of sea were ..... for the first

time since satellite records began in 1979. *(3 marks)*

6 (a) (ii) Suggest why the area of sea ice shown in **Figure 10** has changed.

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(2 marks)

6 (b) Describe the environmental problems that could be caused by the change to the area of sea ice shown in **Figure 10**.

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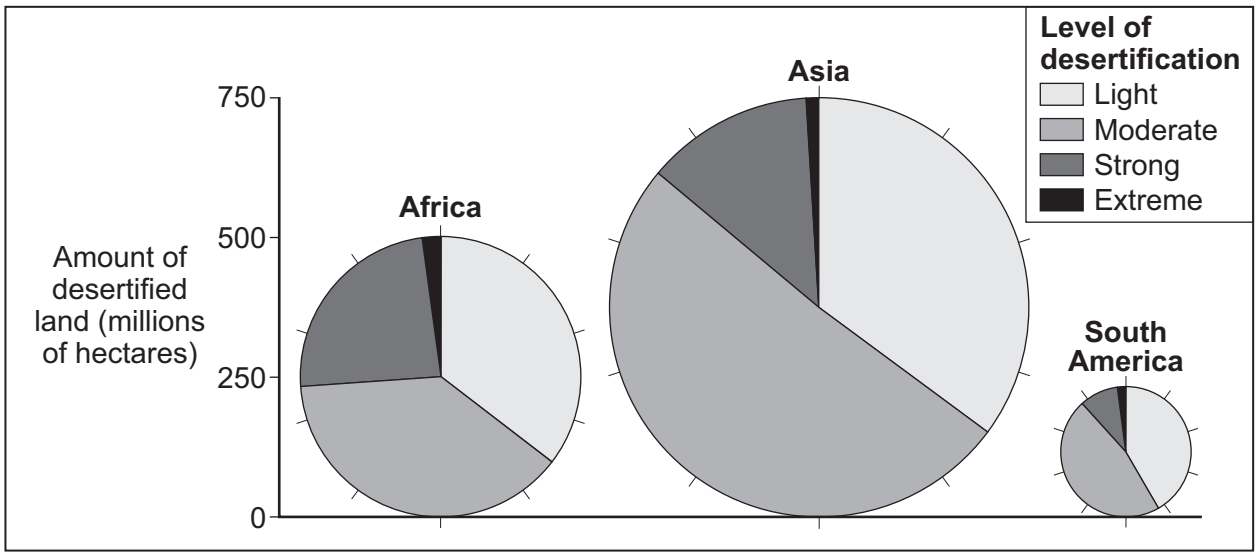
Total for this question: 15 marks

7 (a) Study **Figure 11**. **Figure 11** shows the amount of desertified land and the level of desertification in three continents.

Figure 11



7 (a) (i) What is the total amount of desertified land in Asia?

Circle the correct answer.

250 million hectares **500 million hectares** **750 million hectares**

(1 mark)

7 (a) (ii) What percentage of the desertified land in Asia is classed as moderate?

Circle the correct answer.

21% **51%** **81%**

(1 mark)

7 (a) (iii) Give **two** differences between Africa and South America shown on **Figure 11**.

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(2 marks)

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7 (b) Study **Figure 12** on the insert. **Figure 12** shows an area where desertification is taking place.

7 (b) (i) The sketch below is based on **Figure 12**.

Complete the sketch.

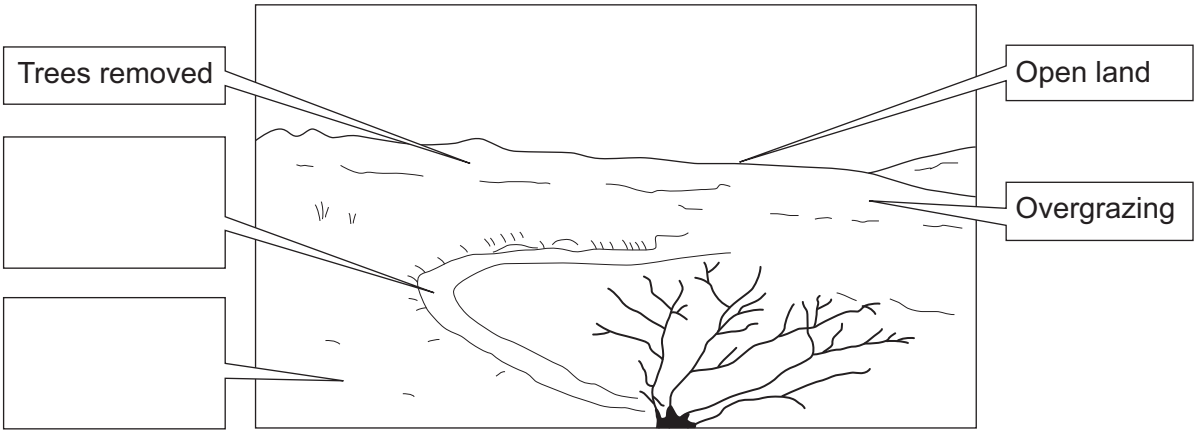
Choose the **two** correct labels from the list below.

Gulley caused by flash floods

Tree planting

Ground baked hard by sun

Terracing



(2 marks)

7 (b) (ii) Suggest **two** reasons why desertification is taking place in the area shown on the sketch.

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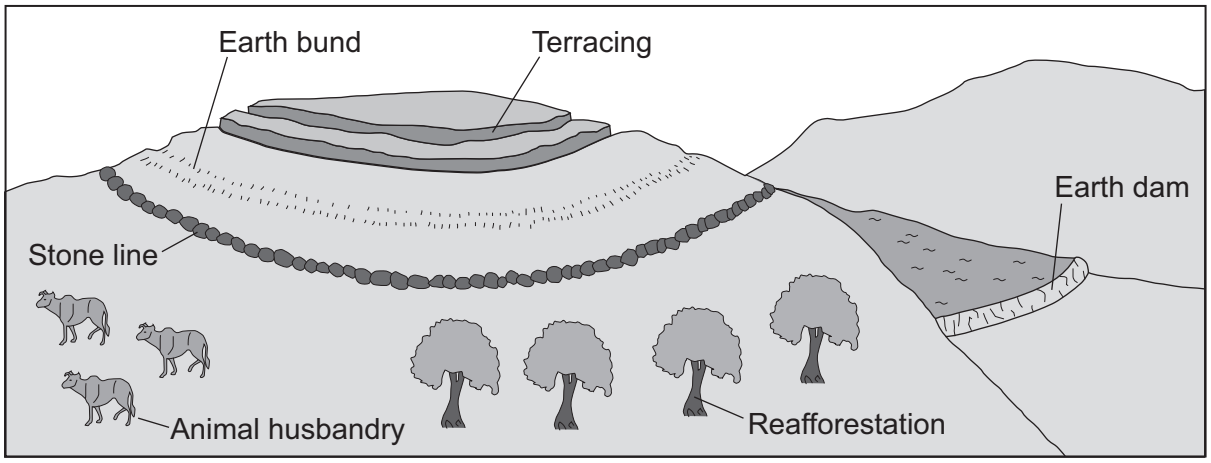
7 (c) Study **Figure 13**. **Figure 13** shows some ways in which areas at risk from desertification can be managed.

Figure 13



Explain how areas at risk from desertification can be managed.

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

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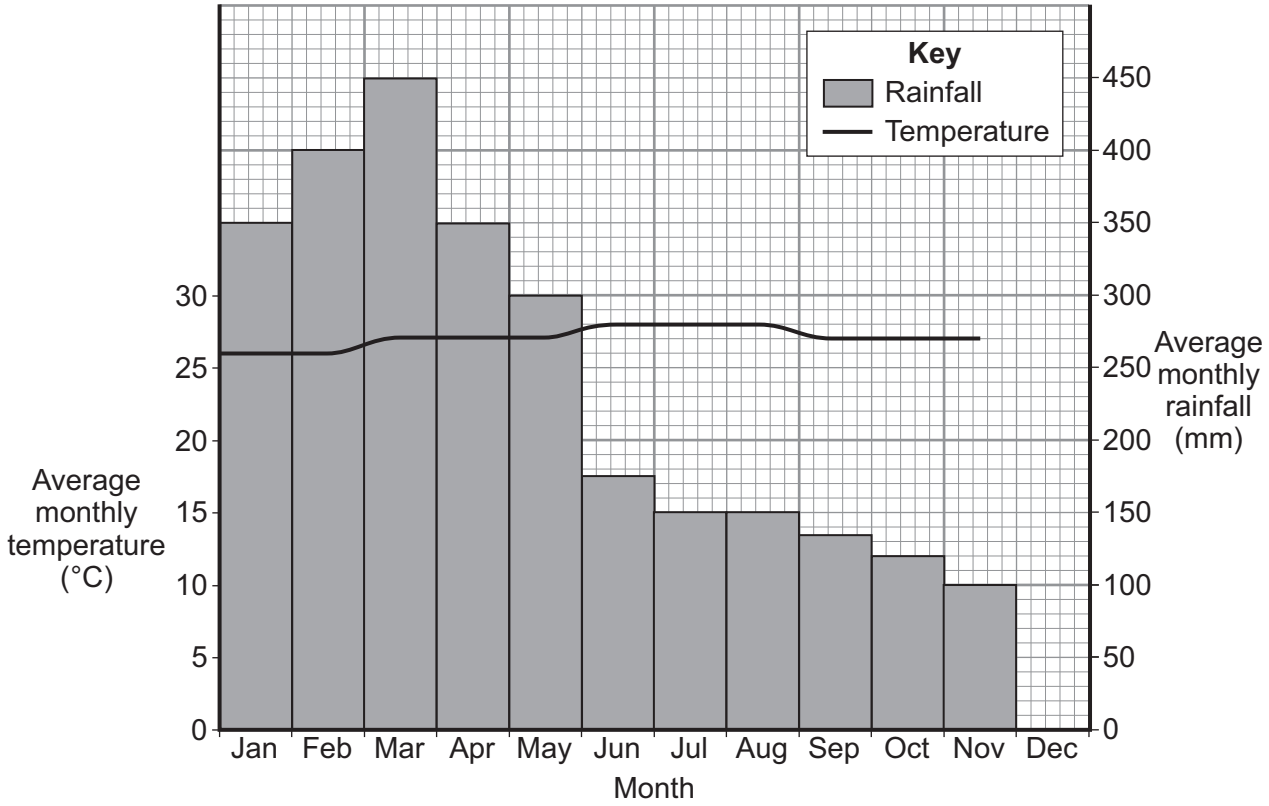
Total for this question: 16 marks

8 (a) Study **Figure 14**. **Figure 14** shows a climate graph for an area of tropical rainforest.

Figure 14



8 (a) (i) Complete **Figure 14**.

Use the information below.

Average monthly temperature in December = 26 °C

Rainfall in December = 90 mm

(2 marks)

8 (a) (ii) Complete the sentences below.

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

The average monthly rainfall is over 250 mm for **[2 / 5 / 8]** months of the year.

The average monthly temperature is over 25 °C for **[6 / 8 / 12]** months of the year.

The annual range of temperature is **[2 / 12 / 22]** °C.

The total annual rainfall is **[270 / 2770 / 5770]** mm.

(4 marks)

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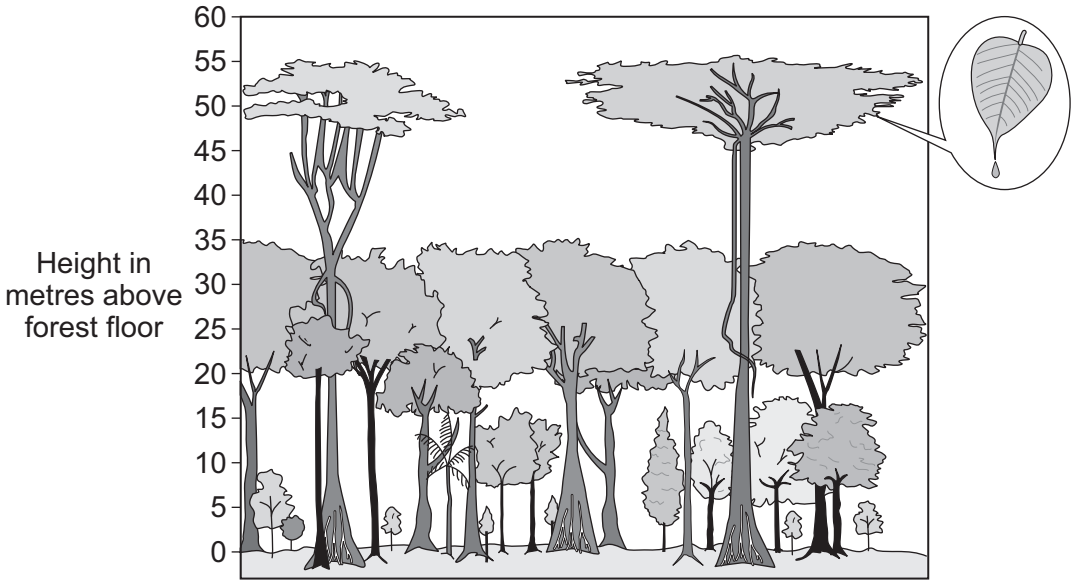
8 (b) Study **Figure 15**. **Figure 15** shows tropical rainforest vegetation.

Figure 15



Describe **two** ways in which the climate affects tropical rainforest vegetation.

Use **Figure 15** and your own knowledge.

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(4 marks)

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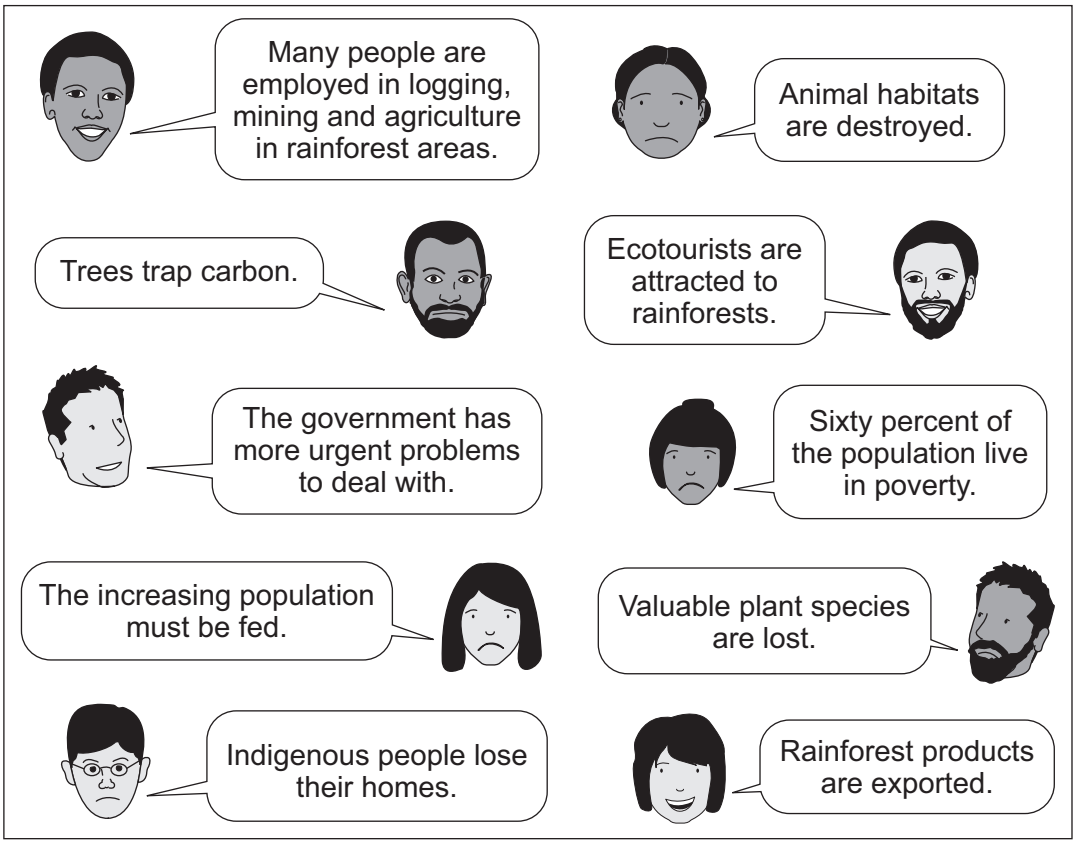
8 (c) Study **Figure 16**. **Figure 16** shows some statements about deforestation in a less developed country.

Figure 16



'Removal of tropical rainforest must be stopped.'

Do you agree?

Tick the box of your choice.

Yes	☐	No	☐

Give reasons for your choice. Use **Figure 16** and your own knowledge.

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END OF QUESTIONS

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Figure 4: (top left) *www.smokeybear.com*
Figure 7: © NASA
Figure 15: CHRIS C. PARK, *Tropical Rainforests*, Routledge, 1982

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