

Centre Number						Candidate Number				
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Other Names										
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General Certificate of Secondary Education  
Foundation Tier  
Specimen Paper for Linear Specification  
(2014 onwards)

# Geography (Specification A)

## 90301F

### Unit 1: Physical Geography

Date: Time:

<p><b>For this paper you must have:</b></p> <ul style="list-style-type: none"> <li>the insert (enclosed)</li> <li>a ruler.</li> </ul> <p>You may use a calculator.</p>
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### Time allowed

1 hour 30 minutes

### Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **three** questions: **one** from **Section A**, **one** from **Section B**, and **one** further question from **either** Section.
- 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.
- Use your case studies to support your answers where appropriate.

### Information

- The maximum mark for this paper is 75.
- 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.

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



## SECTION A

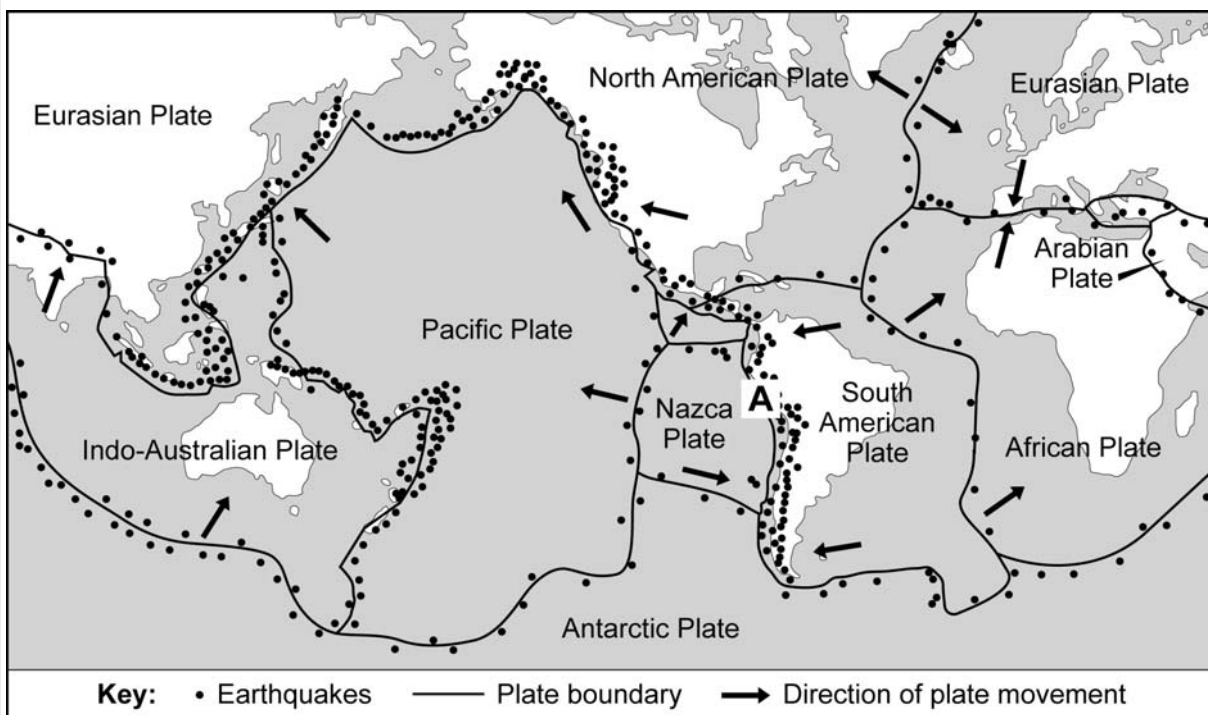
Answer at least **one** question, but **not more than two** questions in this section.  
Use your case studies to support your answers where appropriate.

### 1 The Restless Earth

Total for this question: 25 marks

- 1 (a) Study **Figure 1** which shows the Earth's tectonic plates and the places where earthquakes occur.

**Figure 1**



- 1 (a) (i) Are the following statements about the distribution of earthquakes **true** or **false**?

Tick the correct boxes.

	True	False
Earthquakes occur in lines.	<input type="checkbox"/>	<input type="checkbox"/>
Earthquakes never occur away from plate boundaries.	<input type="checkbox"/>	<input type="checkbox"/>
Earthquakes occur around the edge of the Pacific Ocean.	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

- 1 (a) (ii) On **Figure 1**, the letter **A** is on a plate boundary. What type of plate boundary is shown by the letter **A**? Circle the correct type in the following list.

**Conservative      Constructive      Destructive**

(1 mark)

- 1 (a) (iii) Complete the paragraph below to explain why earthquakes occur at conservative plate boundaries. Choose the correct words from this list.

**apart from      jerking      different      lava**  
**slide past      parallel with      pressure      smooth**

At conservative plate boundaries, plates move ..... each other. They ..... each other. The plates often stick and ..... builds up. The sudden release of the plates causes a ..... movement and an earthquake occurs.

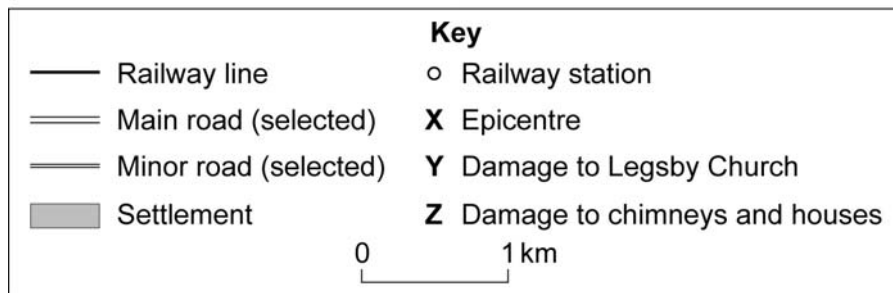
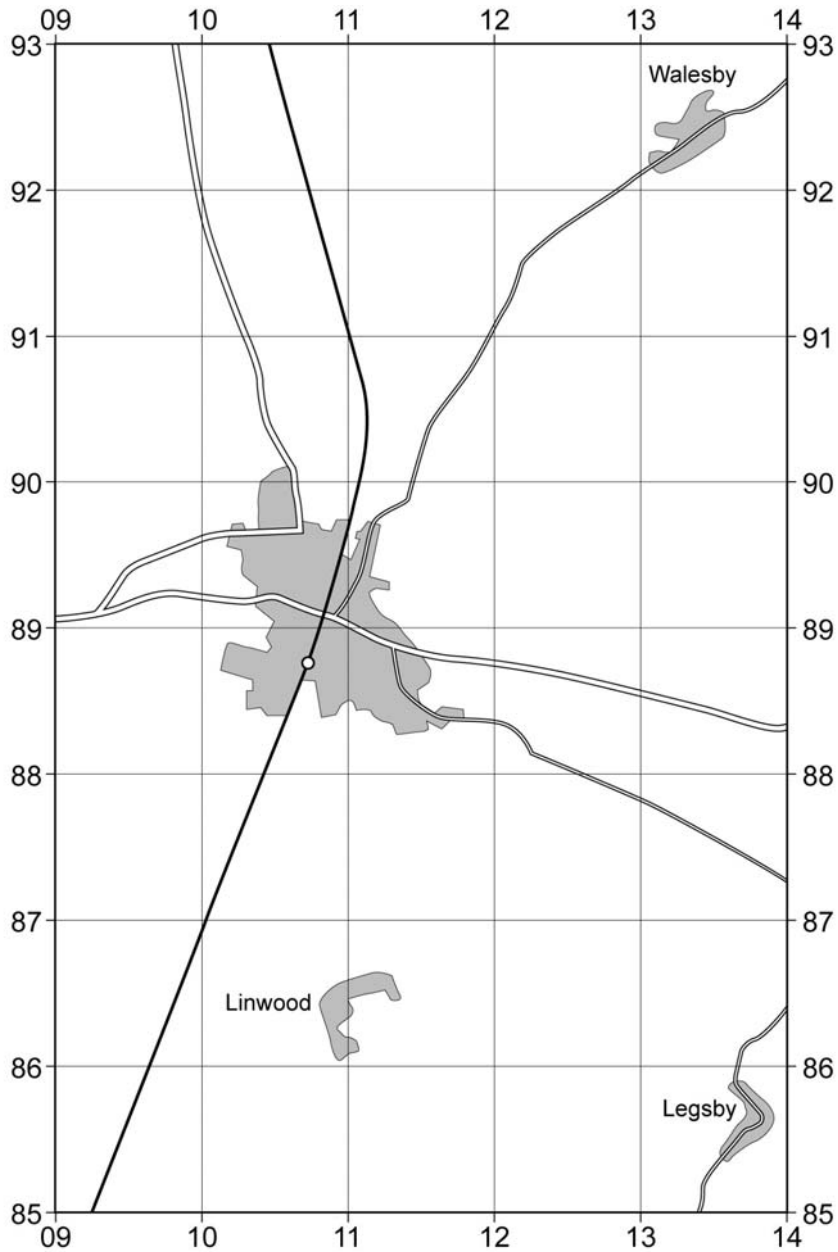
(4 marks)

**Question 1 continues on the next page**



- 1 (b) Study **Figure 2**, on the insert, a 1:50 000 Ordnance Survey map extract of Market Rasen, Lincolnshire. An earthquake struck Market Rasen on 27 February 2008. **Figure 3** is a sketch map drawn from **Figure 2**.

**Figure 3**



- 1 (b) (i) The epicentre of the earthquake was 4km north of the railway station in Market Rasen.

On **Figure 3**, mark the position of the epicentre with the letter **X**.

(2 marks)

- 1 (b) (ii) Damage was reported to Legsby parish church in grid square 1385 and to chimneys of houses at grid reference 108892.

On **Figure 3**, draw two arrows to show where this damage occurred. Label these arrows with the correct letters **Y** and **Z** from the key.

(3 marks)

- 1 (b) (iii) The earthquake measured 5.2 on the Richter Scale. With the help of **Figure 2**, and your own knowledge, explain why the damage was limited.

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(4 marks)

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**Question 1 continues on the next page**



1 (c) (i) Explain why a tsunami is a secondary effect of plate movement.

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(2 marks)

1 (c) (ii) Use a case study of a tsunami to describe its effects on coastal areas.

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**2 Rocks, Resources and Scenery****Total for this question: 25 marks**

2 (a) Study **Figure 4**, on the insert, which shows (part of) a geological time scale.

2 (a) (i) Use **Figure 4** to describe how an 'era' is different from a 'period' on a geological time scale.

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*(2 marks)*

2 (a) (ii) Use the information in **Figure 4** to complete the table below.

Period	Rock Type	Age (millions of years)
Carboniferous		360 – 290
	Granite	290 - 245
Cretaceous	Chalk and Clay	

*(3 marks)*

2 (a) (iii) What type of rock is limestone?  
Circle the correct type in the following list.

**Metamorphic      Sedimentary      Igneous**

*(1 mark)*

**Question 2 continues on the next page**



- 2 (b) Study **Figure 5**, on the insert, which is a photograph of Malham Cove, a limestone area in Yorkshire.  
Give **three** characteristics of the rock and landscape shown in the photograph.

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(3 marks)

- 2 (c) Rocks are affected by different types of weathering.  
Draw a line to link each of the statements to the correct type of weathering.

**Type of Weathering**

**Statement**

Freeze thaw	is a type of chemical weathering.
Exfoliation	is when water changes to ice, expands and weakens the rock.
Solution	occurs when plants and animals have an effect on the rock.
Biological weathering	is when layers of rock peel off from the surface.

(3 marks)



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2 (d) Study **Figure 6**, on the insert, a 1:50 000 Ordnance Survey map extract of Westbury, Wiltshire.

2 (d) (i) Westbury cement works is marked **X** on the map.  
Complete the paragraph below to describe the location of Westbury cement works.  
Circle the correct answer in **each** case.

Westbury cement works is found in grid square **8852 / 8952**. The works are **south west / north east** of the church in grid square 8751. The land is **gently / steeply** sloping.

(3 marks)

2 (d) (ii) A quarry is marked **Y** on the map.  
Use **Figure 6** to describe how the quarry at **Y** may cause problems for the environment.

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**Question 2 continues on the next page**



2 (e) Use a case study to describe the advantages of a quarry.

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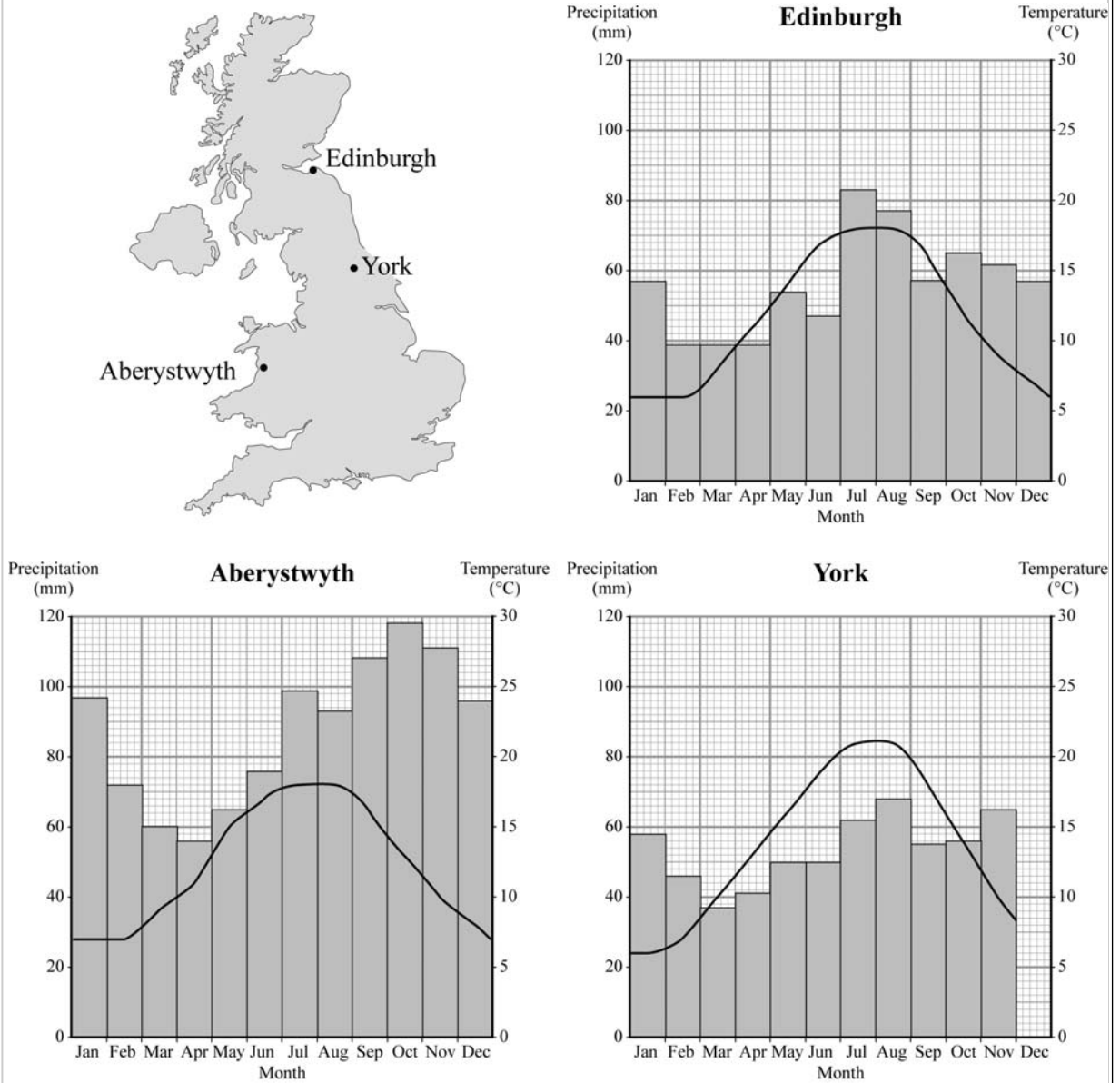


**3 Challenge of Weather and Climate**

**Total for this question: 25 marks**

- 3 (a)** Study **Figure 7** which shows climate graphs for three cities in the United Kingdom.

**Figure 7**



3 (a) (i) Complete the climate graph for York by adding the following figures.

Month	Temperature (°C)	Precipitation (mm)
December	7	50

(2 marks)

3 (a) (ii) Complete the following sentences by adding the correct city. Choose the correct city from the list below.

**Aberystwyth                      Edinburgh                      York**

The wettest city in October is .....

The warmest city between June and August is .....

..... has the smallest temperature range.

(3 marks)

3 (a) (iii) Suggest why York's annual precipitation total is 529mm, whilst the total for Aberystwyth is 1051mm.

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(2 marks)

3 (a) (iv) Suggest why Edinburgh's temperature is 2° to 3°C lower than that of York between April and September.

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(2 marks)



Barcode

3 (b) **Figure 8**, on the insert, is a newspaper extract describing floods in Sheffield in June 2007.

3 (b) (i) Give **two** pieces of evidence that suggest Sheffield experienced extreme weather conditions before the flood.

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(2 marks)

3 (b) (ii) Describe the different ways in which people's lives were affected by the extreme weather in Sheffield in June 2007.

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3 (c) **Figure 9**, on the insert, is a satellite image of Hurricane Katrina in August 2005.

3 (c) (i) Complete the following statements by writing the correct word(s) in the spaces provided. Choose your answers from the list below.

**clockwise**      **eye**      **sea**      **north west**

**anticlockwise**      **land**      **eye wall**      **north east**

Feature **X** is the .....

Hurricane Katrina is over .....

Hurricane Katrina is spinning .....

Hurricane Katrina is moving in a ..... direction.

(4 marks)



- 3 (c) (ii) Using a case study of a tropical revolving storm hurricane that you have studied, describe its economic and social effects.

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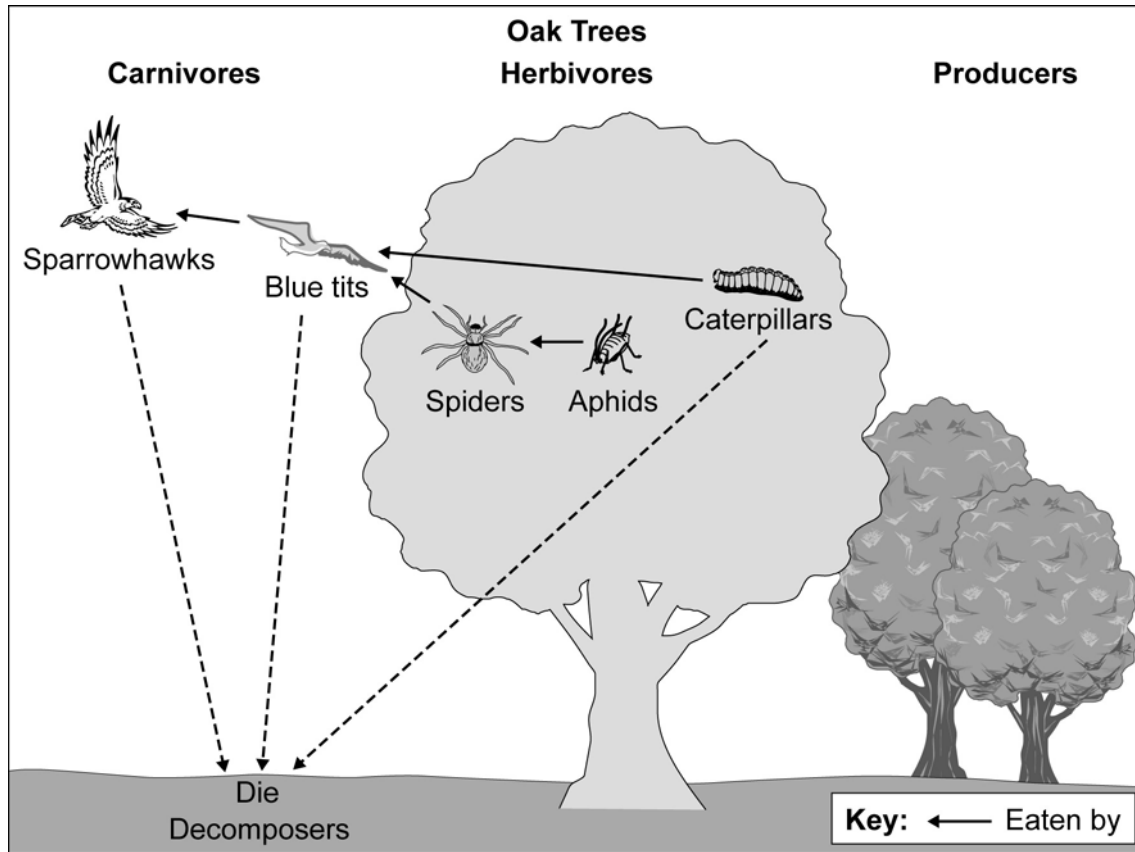


**4 Living World**

**Total for this question: 25 marks**

**4 (a)** Study **Figure 10**, which shows part of a deciduous forest ecosystem.

**Figure 10**



There are different parts of an ecosystem.

Draw a line to link each of the statements to the correct part of the ecosystem.

Producers	eat green plants
Herbivores	break down dead plants and animals
Carnivores	make their own food by photosynthesis
Decomposers	are the highest level in the food chain

(3 marks)





4 (b) (i) Explain **one** way in which deciduous trees have adapted to the climate.

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(2 marks)

4 (b) (ii) Explain **one** way in which deciduous trees have adapted to the soil.

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(2 marks)

4 (c) Study **Figure 11**, on the insert, a 1:50 000 Ordnance Survey map extract of part of Epping Forest, a deciduous forest near London.

4 (c) (i) Measure the distance along the A104 from the roundabout at 427994 to the road junction at 408953.

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(2 marks)

4 (c) (ii) Use **Figure 11** to describe recreation activities in Epping Forest.

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(3 marks)

**Question 4 continues on the next page**



4 (d) Describe how an area of deciduous woodland is managed to supply timber and timber products.

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(3 marks)



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- 4** (e) Study **Figures 12a and 12b** on the insert, photographs of vegetation in a hot desert area.

Describe, and suggest reason(s) for, the changes in vegetation.

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(4 marks)

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**Question 4 continues on the next page**



- 4 (f) Use a case study of a hot desert area in a poorer part of the world to describe how people use the area to make a living.

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**END OF SECTION A**



**SECTION B**

Answer at least **one** question, but **not more than two** questions in this section.  
Use your case studies to support your answers where appropriate.

**5 Water on the Land**

**Total for this question: 25 marks**

**5 (a)** Study **Figure 13**, on the insert, a 1:50 000 Ordnance Survey map extract of Boscastle.

**5 (a) (i)** What happens at **X** along the course of the River Valency?

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*(1 mark)*

**5 (a) (ii)** A 'waterfall' is found at **Y**. Give the map evidence for this landform, apart from the label.

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*(2 marks)*

**5 (a) (iii)** Grid squares 1290 and 1291 are outlined on **Figure 13**. Describe the channel and the valley of the River Valency in these grid squares.

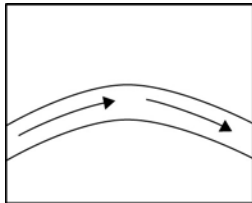
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*(3 marks)*



5 (b) **Figure 14** shows the stages in the formation of a river landform in its lower course.

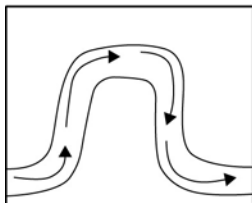
Add a sentence in each box to explain the formation of the landform.

**Figure 14**



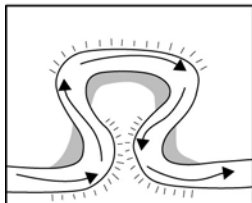
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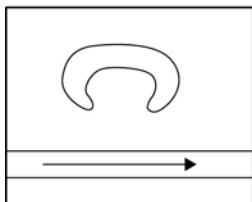
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<b>Key</b>	
 River	 Erosion
 Direction of flow	 Deposition

(4 marks)

**Question 5 continues on the next page**



5 (c) Study **Figure 13**, the Ordnance Survey map extract of Boscastle.

5 (c) (i) Boscastle experienced a flash flood on 16 August 2004.

Give the meaning of the term 'flash flood'.

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*(2 marks)*

5 (c) (ii) Using **Figure 13**, the Ordnance Survey map of Boscastle, describe how each of the following contributed to the flooding.

The relief (height and shape of the land) in the Valency valley in grid square (1091).

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The settlement of Boscastle in grid square (0990).

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*(4 marks)*



5 (c) (iii) Study **Figure 15**, on the insert, a photograph showing part of Boscastle on 17 August 2004.

Three effects of flooding are arrowed and marked **X**, **Y** and **Z** on **Figure 15**. Write labels for **X**, **Y** and **Z** to describe the effects of flooding in Boscastle.

**X** .....

**Y** .....

**Z** .....

(3 marks)

5 (d) Describe how hard engineering methods are used to control flooding.

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**6 Ice on the Land**

**Total for this question: 25 marks**

**6** (a) Study **Figure 16**, on the insert, a 1:25 000 Ordnance Survey map extract of Helvellyn, Lake District.

**6** (a) (i) Give the direction from Glenridding (3617) to Red Tarn (3415).

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*(1 mark)*

**6** (a) (ii) Helvellyn is found at **X** on **Figure 16**.  
Give the 6-figure grid reference for Helvellyn.

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*(1 mark)*

**6** (a) (iii) Measure the distance along the footpath from Glenridding Youth Hostel (366174) to Red Tarn (350154).

..... km  
*(1 mark)*

**6** (a) (iv) Grid square 3415 is outlined on **Figure 16**.  
Describe the glacial landforms found in grid square 3415.

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6 (b) (i) **Figure 17** on the insert is a photograph of a glacial landform.

Using **Figure 17**, state what the landform is and describe its main characteristics by describing what arrows **X** and **Y** point to.

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(3 marks)

6 (b) (ii) Complete the paragraph below to explain how the landform in **Figure 17** was formed. Choose the correct words from the list below.

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|-----------------------|---------------------|---------------------|---------------------|
| <b>truncated</b>      | <b>valley floor</b> | <b>whole valley</b> | <b>interlocking</b> |
| <b>glacial trough</b> | <b>abrasion</b>     | <b>weathering</b>   | <b>corrie</b>       |

Before the Ice Age, a river flowed along the valley. As it got colder, ice occupied the ..... It eroded the ..... spurs by plucking and ..... The V shape of the river valley is changed into a U shaped .....

(4 marks)



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6 (c) Study **Figure 18**, on the insert, a photo of the Athabasca Glacier in Banff National Park in Canada.

6 (c) (i) Tick the correct box to show whether each of the following statements about the glacier is **True** or **False**.

	True	False
The glacier has retreated during the twentieth century/since 1992.	<input type="checkbox"/>	<input type="checkbox"/>
Snow is being added faster than it is melting.	<input type="checkbox"/>	<input type="checkbox"/>
Ground moraine is shown on the photograph.	<input type="checkbox"/>	<input type="checkbox"/>

(3 marks)

6 (c) (ii) Describe **two** different attractions of a landscape that is covered by snow and ice for tourists.

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(2 marks)

**Question 6 continues on the next page**



6 (d) Using a case study of an area that is covered by snow and ice, describe the environmental impact of tourism.

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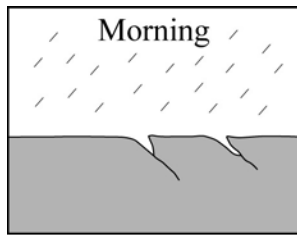


**7 The Coastal Zone**

**Total for this question: 25 marks**

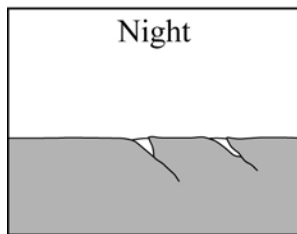
- 7 (a) Figure 19** shows how freeze thaw weathering occurs.  
Add a sentence in each box to explain freeze thaw weathering.

**Figure 19**



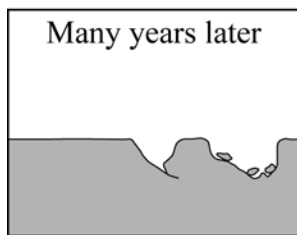
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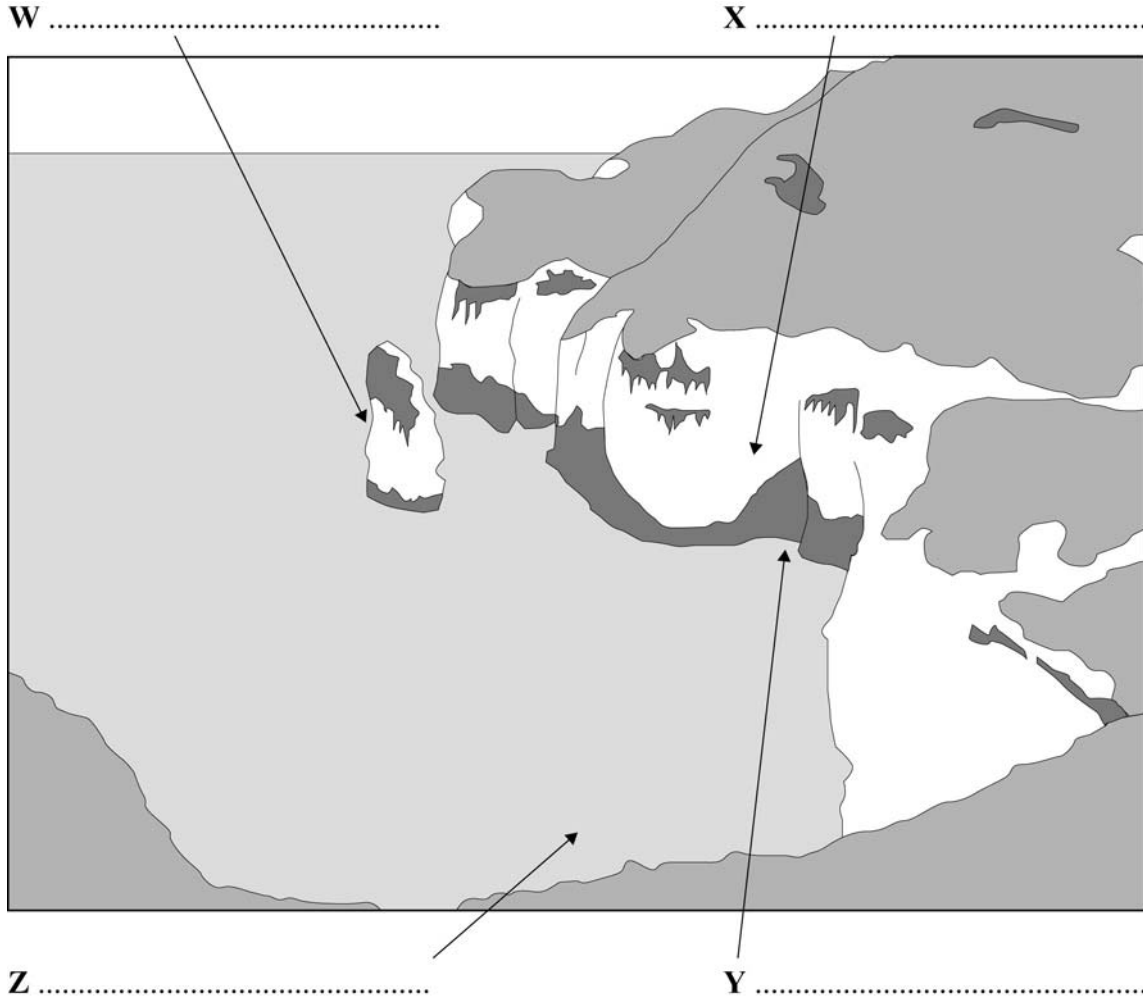
*(3 marks)*

**Question 7 continues on the next page**



- 7 (b) (i) Study **Figure 20**, on the insert, which shows the coastal zone at Flamborough, North Yorkshire. **Figure 21** is a sketch of **Figure 20**. On **Figure 21**, label features **W**, **X**, **Y** and **Z**.

**Figure 21**



(4 marks)

- 7 (b) (ii) Mass movement is common in the area shown in **Figure 20**. What is meant by the term mass movement?

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(2 marks)



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7 (c) Study **Figure 22**, on the insert, a 1:50 000 Ordnance Survey map extract of Mappleton on the Holderness coast in Yorkshire.

7 (c) (i) **X** shows the position of the coastline in 1910.  
How much land has been lost since then?

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(1 mark)

7 (c) (ii) Grid squares 2243 and 2244 are outlined on **Figure 22**.

Describe the physical and human features of the coastline in these grid squares.

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(3 marks)

**Question 7 continues on the next page**



7 (c) (iii) Using **Figure 22**, describe the effects of continued coastal erosion on the settlement and residents of Mappleton.

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(4 marks)

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7 (c) (iv) A rock groyne has been built at **Y** on **Figure 22**. Longshore drift occurs mainly south eastwards.

How will the groyne affect the process of longshore drift in this area?

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(2 marks)





- 7 (d) For a coastal environment that you have studied, describe the environment and explain why it provides a suitable habitat for the species living there.

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**END OF QUESTIONS**



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Figure 7: [www.bbc.co.uk](http://www.bbc.co.uk)

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