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For Examiner's Use

General Certificate of Secondary Education
June 2008

GEOGRAPHY (SPECIFICATION A)
Paper 1
FOUNDATION TIER

3031/1F
F



Wednesday 4 June 2008 9.00 am to 10.45 am

For this paper you must have:

- the Ordnance Survey map extract (enclosed)
 - the insert (enclosed).
- You may use a calculator.

Time allowed: 1 hour 45 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.

<u>SECTION A</u>	Skills Answer <u>ALL</u> questions.
<u>SECTION B</u>	People and the Natural Environment Answer <u>THREE</u> questions only.

- Use case studies to support your answers where appropriate.
- **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.
- If you need extra paper use the Supplementary Answer Sheets.

Information

- The maximum mark for this paper is 70.
- The marks for questions are shown in brackets.
- You will be assessed on your ability to:
 - present relevant information in a form and style that suits its purpose;
 - ensure that text is legible and that spelling, punctuation and grammar are accurate;
 - use specialist vocabulary where appropriate.
- LEDC is a Less Economically Developed Country.
- MEDC is a More Economically Developed Country.

For Examiner's Use			
Question	Mark	Question	Mark
1		9	
2		10	
3			
4			
5			
6			
7			
8			
Total (Column 1) →			
Total (Column 2) →			
TOTAL			
Examiner's Initials			



SECTION AAnswer **ALL** questions in Section A.**1** **Total for this question: 9 marks****1** Study **Figure 1**, the Ordnance Survey map extract of Lincoln in 2006.**1** (a) Name the settlement in grid square 0267.

.....

(1 mark)

1 (b) Give the direction from Washingborough (0270) to Bracebridge Heath (9867).

.....

(1 mark)

1 (c) Name the feature at grid reference 975719.

.....

(1 mark)

1 (d) Give the distance along the A158 from the level crossing at 052759 to the roundabout at 005733.

..... km

(2 marks)

1 (e) **Figure 2**, opposite, is a partly completed sketch map of Lincoln.

Using **Figure 1**, complete **Figure 2** by naming features **X** and **Y**.

(2 marks)

1 (f) Explain how feature **Y** affects the shape of Lincoln.

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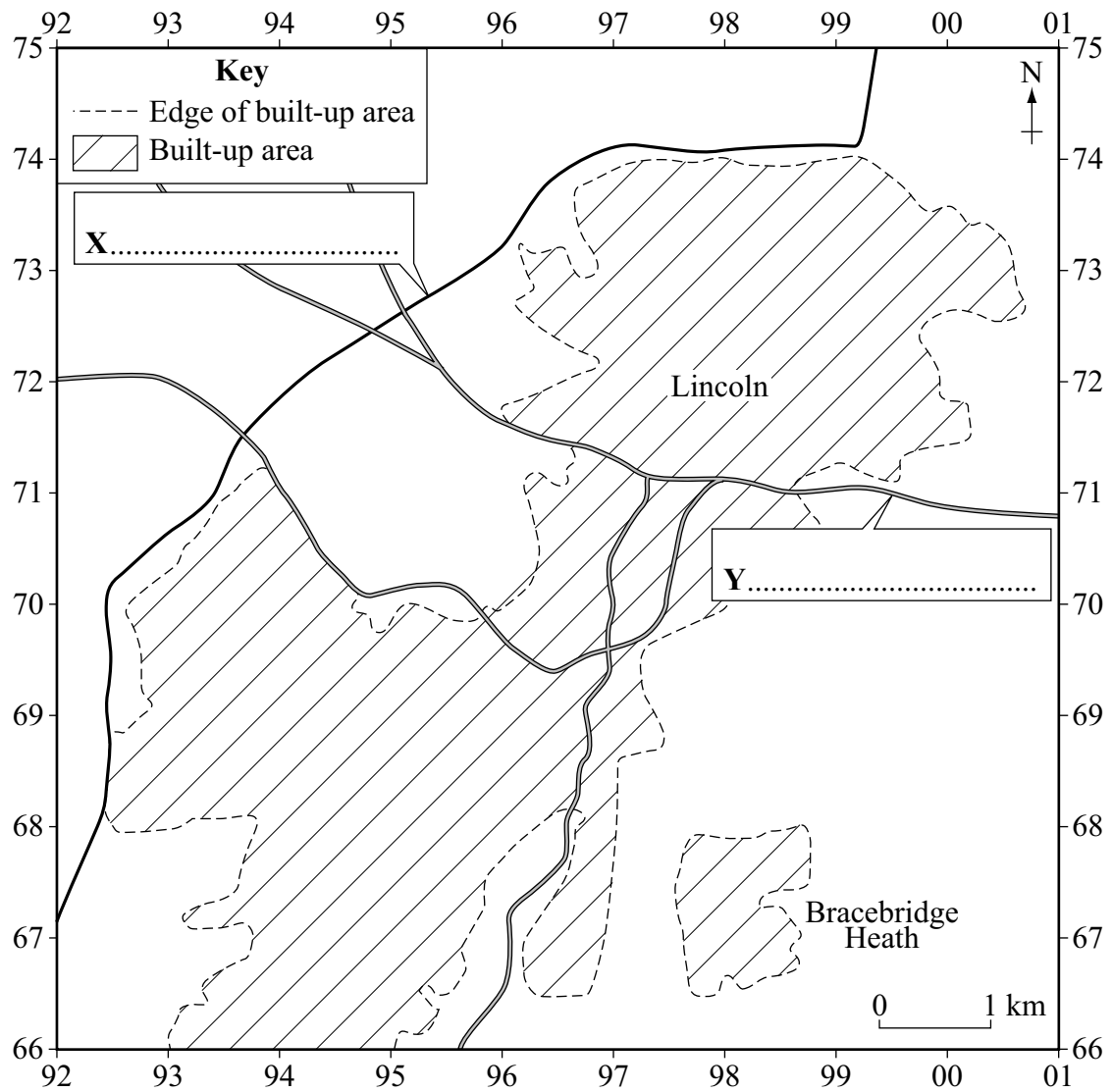
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(2 marks)



Figure 2



Turn over for the next question

Turn over ►



2

Total for this question: 10 marks

2 Study **Figure 3**, on the insert, an Ordnance Survey map extract of Lincoln in 1980, and **Figure 1**, the Ordnance Survey map extract of Lincoln in 2006.

2 (a) Name a service in Bracebridge Heath (9867) in 1980 that was no longer there in 2006.

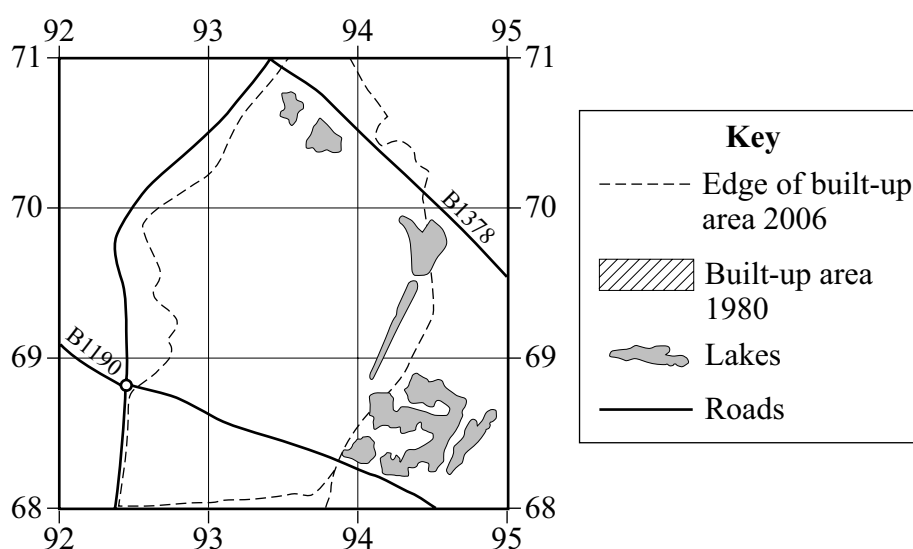
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(1 mark)

2 (b) Grid squares 9571 and 9572 are outlined in **Figure 3**.
Describe how the land use has changed in these squares between 1980 and 2006.

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(3 marks)

2 (c) Study **Figure 4** which is a sketch map showing the built-up area of Birchwood (9369) in 2006.

Figure 4



- 2** (c) (i) On **Figure 4**, shade the built-up area of Birchwood in 1980.

(2 marks)

- 2** (c) (ii) Describe how Birchwood has changed between 1980 and 2006.

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(4 marks)

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Turn over for the next question



3

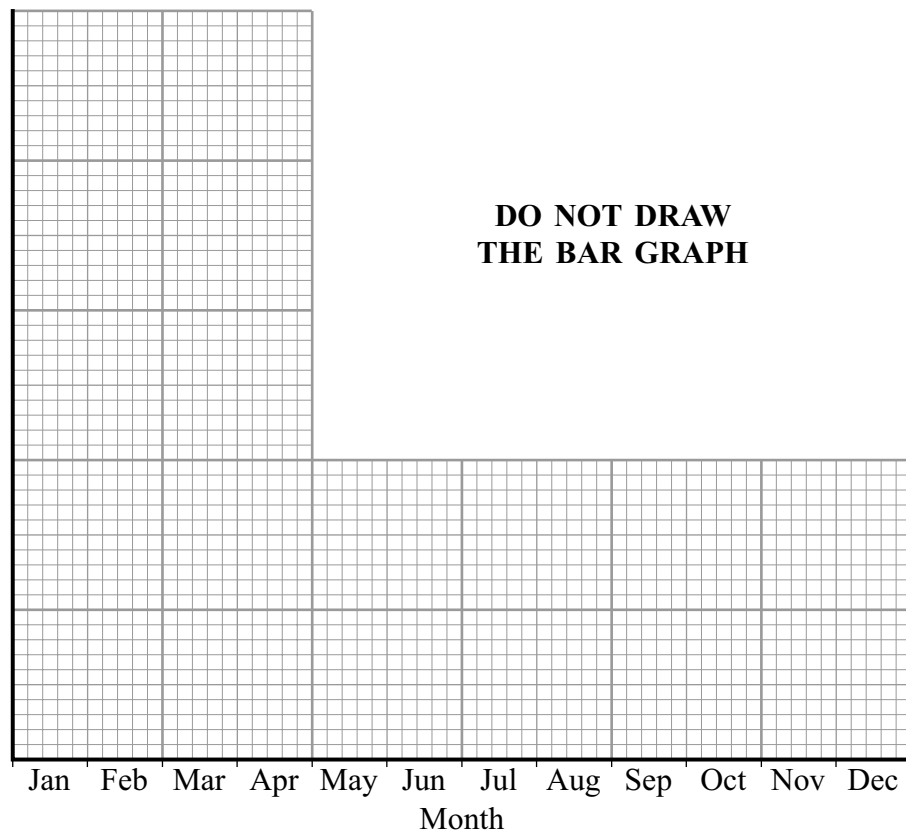
Total for this question: 6 marks

- 3 Study **Figure 5** which shows the number of visitors to Lincoln Cathedral in a recent year.

Figure 5

Month	Number of Visitors (000's)
January	3
February	6
March	14
April	15
May	10
June	8
July	11
August	16
September	9
October	10
November	3
December	5

- 3 (a) A bar graph could be drawn to present this information.
Complete the vertical axis on the graph paper below.

*(2 marks)*

3 (b) Describe the changes shown in **Figure 5**.

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(4 marks)

(Extra space)

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END OF SECTION A

Turn over for Section B

6

Turn over ►



SECTION B

Answer **THREE** questions only in Section B.

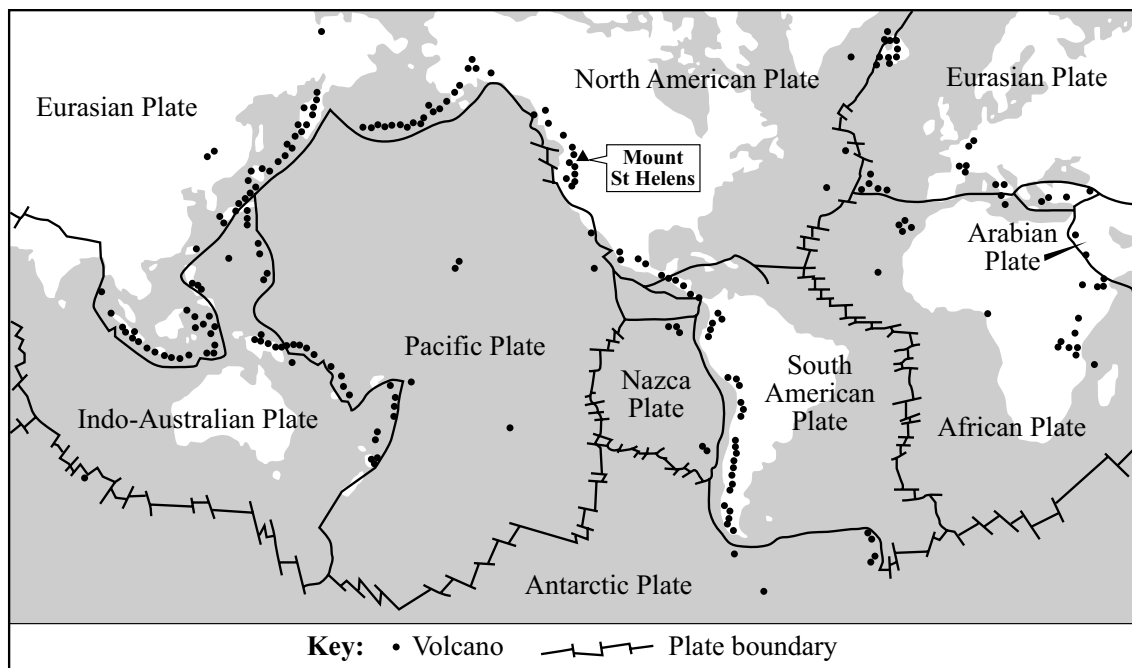
Use case studies to support your answers where appropriate.

4 Tectonic Activity

Total for this question: 15 marks

- 4 (a) Study **Figure 6** which shows the distribution of volcanoes.

Figure 6



- 4 (a) (i) Tick the correct box to show whether each of the following statements about the distribution of volcanoes is **true** or **false**.

	True	False
Volcanoes often occur in lines.	☐	☐
Many volcanoes are found around the edge of the Pacific Ocean.	☐	☐
There are no volcanoes in Europe.	☐	☐

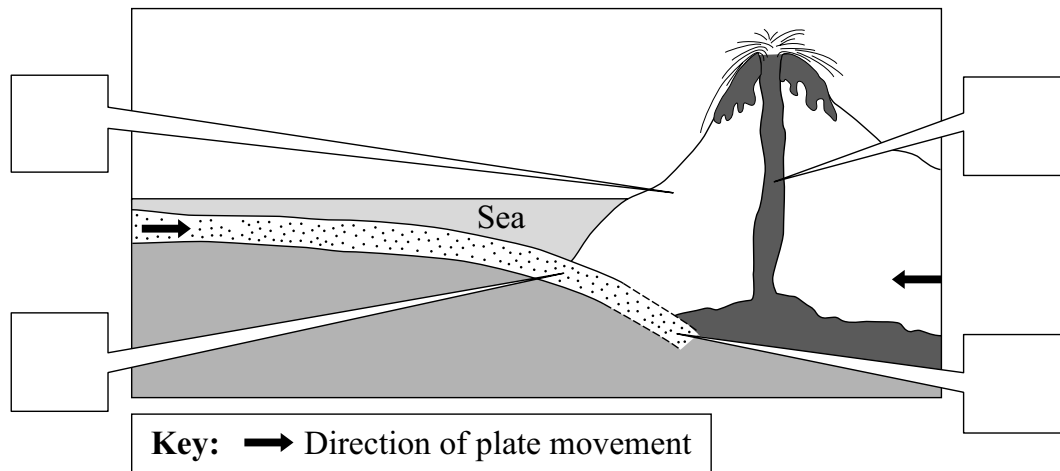
(3 marks)



- 4 (a) (ii) The location of Mount St Helens, in the USA, is shown on **Figure 6**. This volcano occurs at a compressional (destructive) plate boundary.

Figure 7 is a cross-section of a compressional (destructive) plate boundary.

Figure 7



Label **Figure 7** to explain why volcanoes such as Mount St Helens occur at compressional plate boundaries.

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

Write the letter in the correct box.

- A** Magma moves towards the surface through a vent.
- B** Oceanic crust sinks below continental crust.
- C** Continental crust is less dense than oceanic crust.
- D** Plates are moving apart.
- E** Friction and heat melt rock.

(4 marks)

Question 4 continues on the next page

Turn over ►



- 4 (b) Study **Figure 8**, on the insert, which shows information about the area north of the crater of Mount St Helens, an active volcano.

- 4 (b) (i) Give **one** physical and **one** human attraction shown on **Figure 8**.

Physical attraction

Human attraction

(2 marks)

- 4 (b) (ii) **Figure 8** lists the activities which are not allowed in the Restricted Area of Mount St Helens. For **one** of these activities, suggest why it is not allowed.

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(2 marks)

- 4 (c) Earthquakes are another example of tectonic activity.
Describe the primary and secondary effects of an earthquake.

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(4 marks)

(Extra space)

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5 Rocks and Landscapes**Total for this question: 15 marks**

- 5 (a)** Complete the sentences below to give the meaning of the different types of rocks.
Choose the correct words from this list.

metamorphic**sedimentary****igneous**

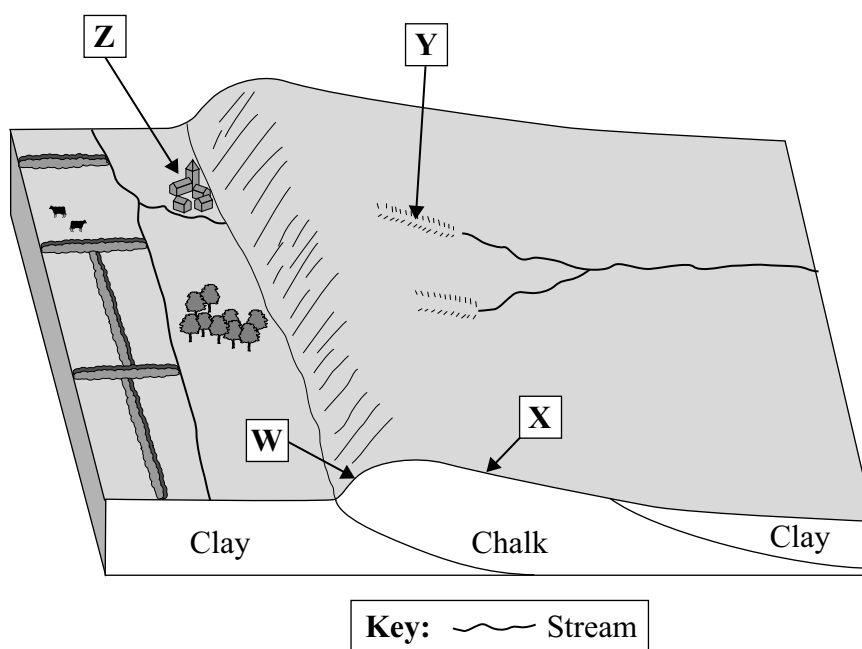
..... rocks are formed by volcanic activity.

..... rocks are formed by the compression of particles into layers.

..... rocks have been changed by heat and pressure.

(2 marks)

- 5 (b)** Study **Figure 9** which shows a chalk escarpment.

Figure 9

- 5 (b) (i)** An escarpment has a scarp slope and a dip slope.
Give the letter, **W** or **X**, that is pointing to the scarp slope.

.....

*(1 mark)***Question 5 continues on the next page****Turn over ►**

- 5** (b) (ii) Complete the paragraph below to explain how an escarpment is formed. Choose the correct words from this list.

tilted **faster** **higher** **horizontal**
less **lower** **more** **slower**

Layers of chalk and clay are due to earth movements.

The chalk is resistant than clay. The clay erodes

..... than the chalk. Over time, the chalk stands

..... than the clay and forms an escarpment.

(4 marks)

- 5** (b) (iii) Name landform **Y**.

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(1 mark)

- 5** (b) (iv) Why is a settlement found at **Z**?

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(3 marks)



- 5** (c) Granite is another type of rock.
Describe the land use of areas of granite.

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(4 marks)

(Extra space)

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15

Turn over for the next question

Turn over ►



6 River Landscapes and Processes**Total for this question: 15 marks**

- 6 (a)** Study **Figure 10**, on the insert, a photograph of the upper course of the Yellowstone River, USA.

- 6 (a) (i)** Name features **X**, **Y** and **Z**.

X

Y

Z

(3 marks)

- 6 (a) (ii)** Complete the paragraph below to explain how a waterfall is formed. Choose the correct words from this list.

flood plain

weathered

advances

traction

undercut

abrasion

retreats

gorge

Waterfalls can be formed when a layer of hard rock is found on top of a layer of soft rock. The soft rock is more quickly by erosion processes such as An overhang of hard rock forms. When this collapses, the waterfall upstream and a is formed.

(4 marks)

- 6 (b)** Study **Figure 11**, on the insert, which shows flooding in Carlisle, a city in northern England, in January 2005.

- 6 (b) (i)** River **X** flows into the River Eden.
What is the name given to a river that flows into a main river?

.....

(1 mark)

- 6 (b) (ii)** Name **one** feature of the course of the River Eden.

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(1 mark)



6 (b) (iii) Give **two** facts about the location of the flooding in Carlisle.

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(2 marks)

6 (b) (iv) With the help of **Figure 11**, suggest why Carlisle flooded in January 2005.

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(4 marks)

(Extra space)

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Turn over for the next question

Turn over ►



7 Glacial Landscapes and Processes**Total for this question: 15 marks**

7 (a) Study **Figure 12**, on the insert, a photograph of Lauterbrunnen Valley, Switzerland, an upland glaciated area.

7 (a) (i) Name features **X**, **Y** and **Z**.
Choose the correct features from this list.

drumlin truncated spur arête pyramidal peak hanging valley

X

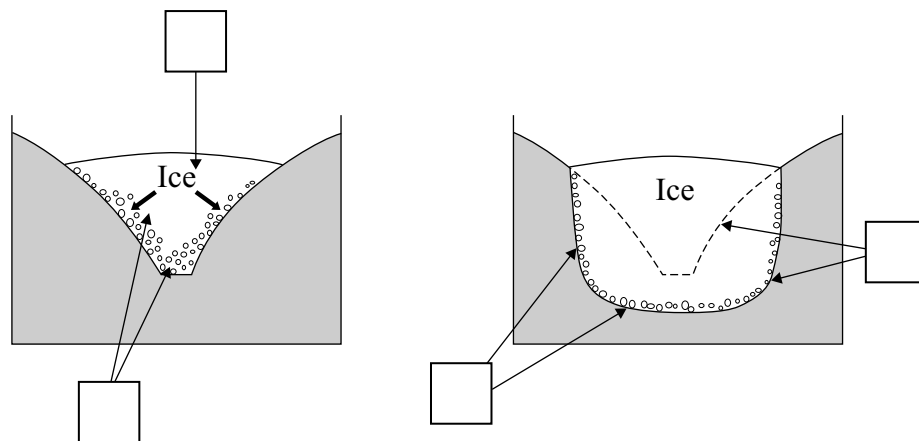
Y

Z

(3 marks)

7 (a) (ii) Study **Figure 13**, two cross sections showing the formation of a glacial trough.

Figure 13



Label **Figure 13**, to explain the formation of a glacial trough.

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

Write the letter in the correct box.

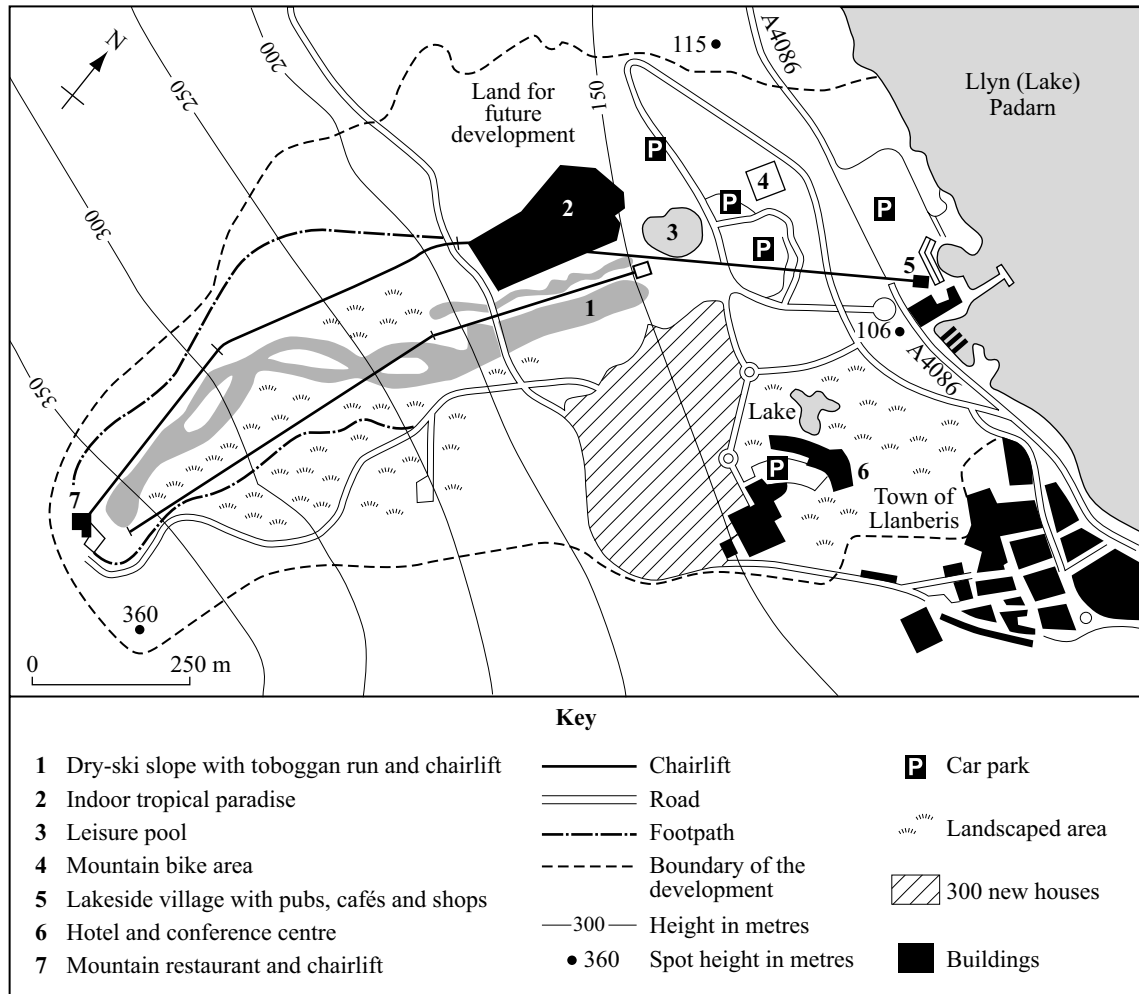
- A** Ice occupied a river valley
- B** Freeze thaw weathering attacked the valley floor
- C** Moraine was found below and within the ice
- D** Snow collected in a corrie
- E** The V-shaped valley has become a U-shaped valley
- F** Abrasion and plucking eroded the floor and sides of the valley

(4 marks)



- 7 (b) Study **Figure 14** which shows a proposed tourist development in an upland glaciated area in Snowdonia, a National Park in North Wales.

Figure 14



- 7 (b) (i) Describe the location of the hotel and conference centre.

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(2 marks)

Question 7 continues on the next page

Turn over ►



- 7 (b) (ii) Suggest why this upland glaciated area would be suitable for a dry-ski slope, toboggan run and chairlift.

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(2 marks)

- 7 (b) (iii) Explain why some people might be against this proposed tourist development.

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(4 marks)

(Extra space)

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8 Coastal Landscapes and Processes**Total for this question: 15 marks**

- 8 (a)** Tick the correct box to show whether each of the following statements about destructive and constructive waves is **true** or **false**.

	True	False
Destructive waves are more frequent than constructive waves.	☐	☐
Destructive waves are steeper than constructive waves.	☐	☐
Destructive waves have a stronger swash than backwash.	☐	☐

(3 marks)

- 8 (b)** Study **Figure 15**, on the insert, an Ordnance Survey map extract of Start Point, South Devon.

- 8 (b) (i)** Name the **three** types of landform, **X**, **Y** and **Z**, resulting from coastal erosion.

X

Y

Z

(3 marks)

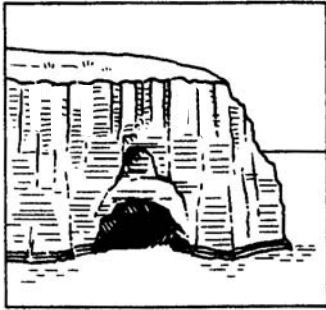
Question 8 continues on the next page

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- 8 (b) (ii) **Figure 16** shows the stages in the formation of a landform of coastal erosion. Add a sentence in each box to explain the formation of landform **X**.

Figure 16

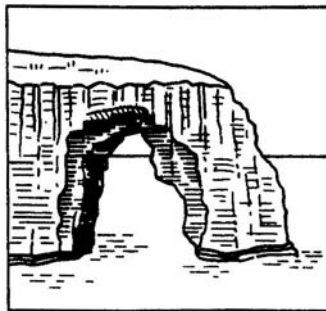


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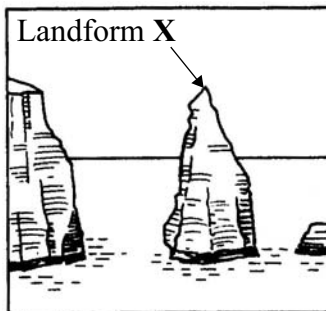


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(3 marks)

- 8 (b) (iii) Describe **one** process of coastal erosion.

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(2 marks)



- 8** (c) Study **Figure 17**, on the insert, a photograph of coastal defences at Mappleton, east Yorkshire.

Explain how the coast is being protected from erosion by the sea.

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(4 marks)

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15

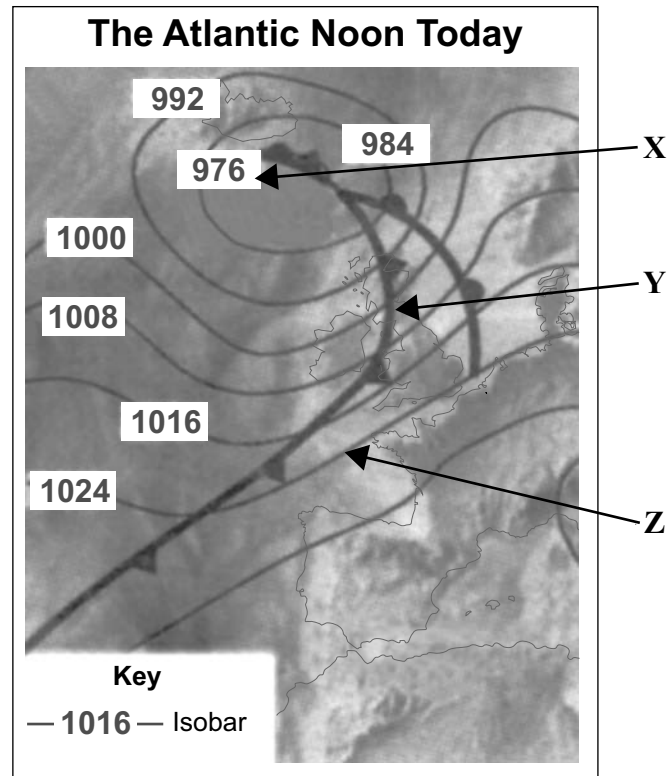
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9 Weather and Climate**Total for this question: 15 marks**

- 9 (a)** Study **Figure 18** which is a synoptic chart of the British Isles for 3 January 2007.

Figure 18

- 9 (a) (i)** Name features **X**, **Y** and **Z**.
Choose the correct labels from this list.

high pressure**warm front****occluded front****cold front****low pressure****isobar****isotherm****X****Y****Z***(3 marks)*

- 9 (a) (ii) The synoptic chart, **Figure 18**, suggests that the winds are likely to be quite strong over the British Isles. Give **one** piece of evidence for this from the chart.

.....

 (1 mark)

- 9 (a) (iii) On **Figure 18**, mark with the letter **L** an area of light winds.

(1 mark)

- 9 (a) (iv) Describe what is likely to happen to the temperature, cloud and rainfall as the warm front passes overhead.

Temperature

.....

.....

Cloud

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.....

Rainfall

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(3 marks)

- 9 (b) Tick the correct box to show whether each of the following statements about tropical storms (hurricanes) is **true** or **false**.

	True	False
Ocean temperatures need to be at least 27°C.	☐	☐
The eye is the centre of the tropical storm.	☐	☐
Tropical storms form between 30° and 40° north and south of the equator.	☐	☐

(3 marks)

Question 9 continues on the next page

Turn over ►



- 9 (c) Study **Figure 19** which describes responses to a tropical storm – Hurricane Katrina in New Orleans, USA in August 2005.

Figure 19 cannot be reproduced here due to third-party copyright constraints.

- 9 (c) Explain why the people of New Orleans were unhappy with the response of the authorities to Hurricane Katrina.

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(4 marks)

(Extra space)

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10 Ecosystems**Total for this question: 15 marks**

- 10 (a)** Study **Figure 20** which shows a coniferous tree.

Figure 20



- 10 (a) (i)** On **Figure 20**, mark with an arrow and label **one** characteristic of each of the following parts of a coniferous tree.

branches
leaves
roots

(3 marks)

Question 10 continues on the next page

Turn over ►



- 10 (a) (ii) Explain how coniferous trees are adapted to their climate.

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(4 marks)

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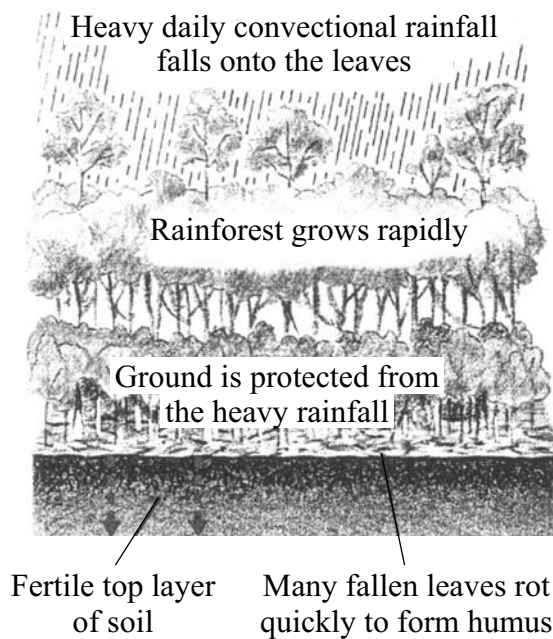
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- 10 (b) Study **Figure 21** which shows a tropical rainforest.

Figure 21



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(1 mark)

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(1 mark)

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(1 mark)

(3 marks)

Turn over ►



10 (c) Describe how replanting of trees is an example of sustainable management.

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(2 marks)

15

END OF QUESTIONS

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Question 3 Figure 5: courtesy of Lincoln Cathedral

Question 4 Figure 6: vulcan.wr.usgs.gov/cascades volcano observatory

Question 7 Figure 14: from *Understanding GCSE Geography: Teacher's Resource Pack* 2nd Ed. by Ann Bowen and John Pallister. Reprinted by permission of Pearson Publishers Oxford Ltd.

Question 8 Figure 16: D. WAUGH, *Key Geography for GCSE, Teacher's Resource Guide*, Stanley Thornes

Question 9 Figure 18: *The Independent*, 3 January 2007

Question 10 Figure 21: D. WAUGH, *Key Geography for GCSE, Book 2*, Stanley Thornes

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GEOGRAPHY (SPECIFICATION A)

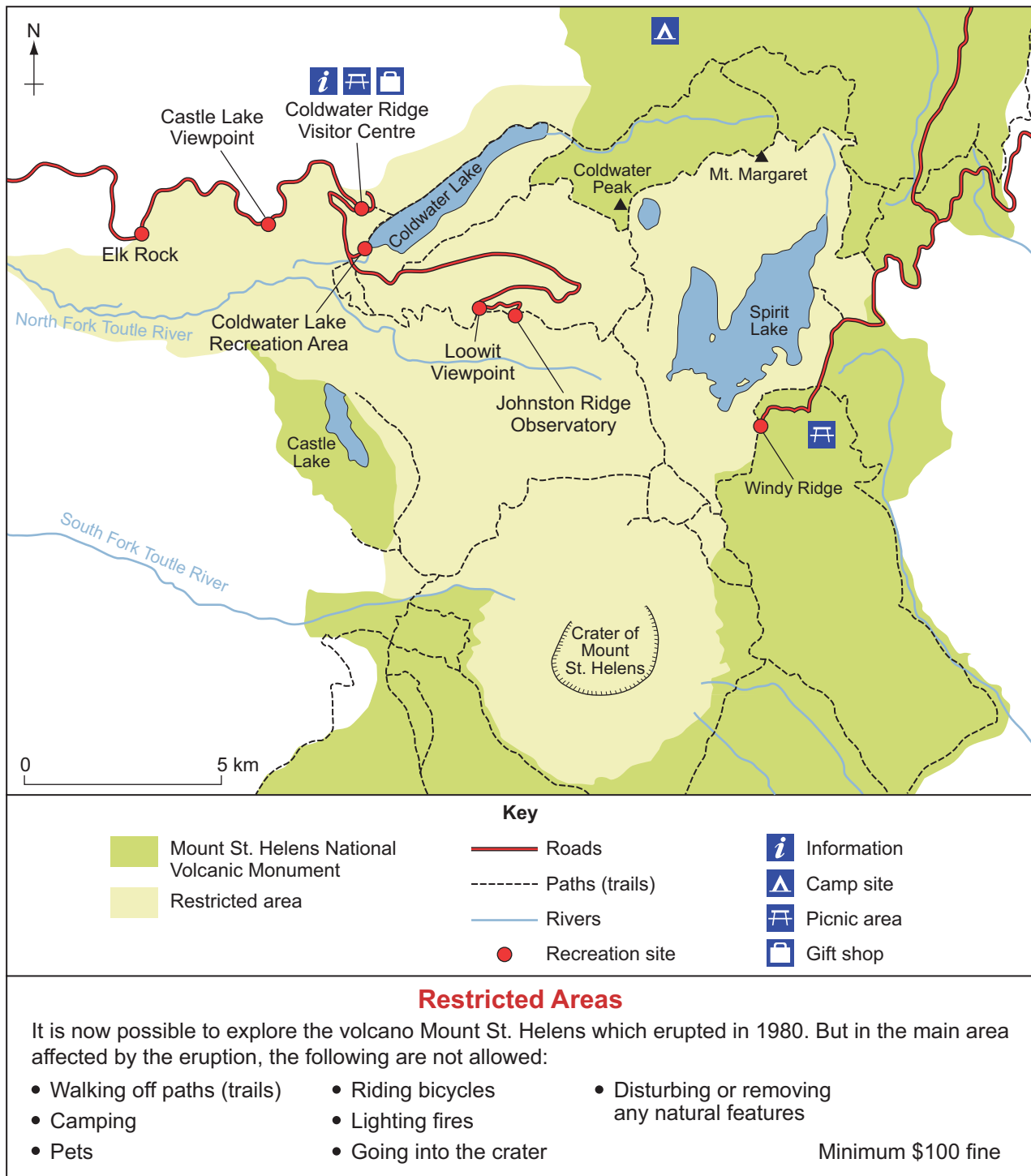
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Insert

Figure 3

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Figure 8



Turn over ►

Figure 10

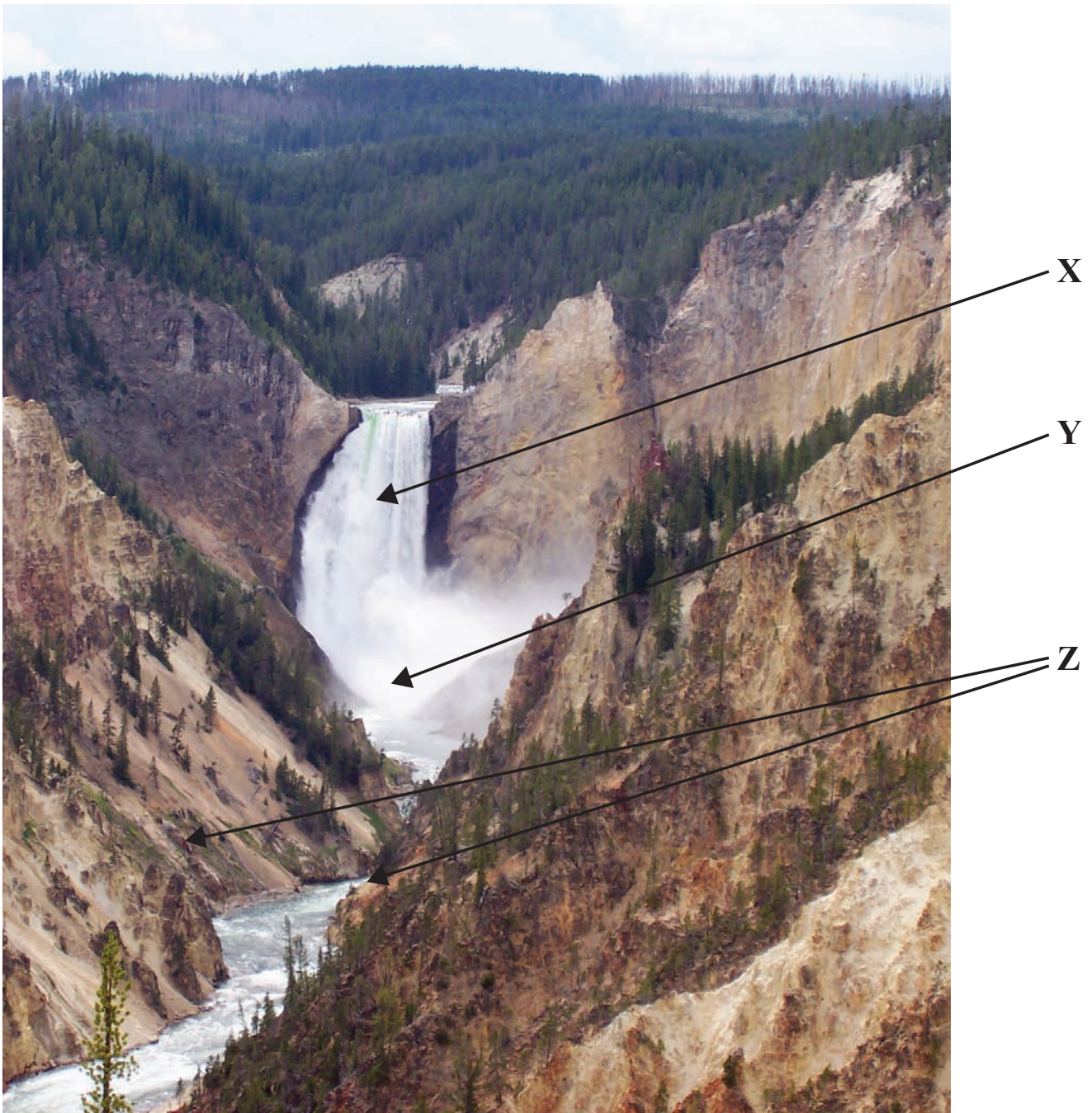


Figure 11

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Figure 12

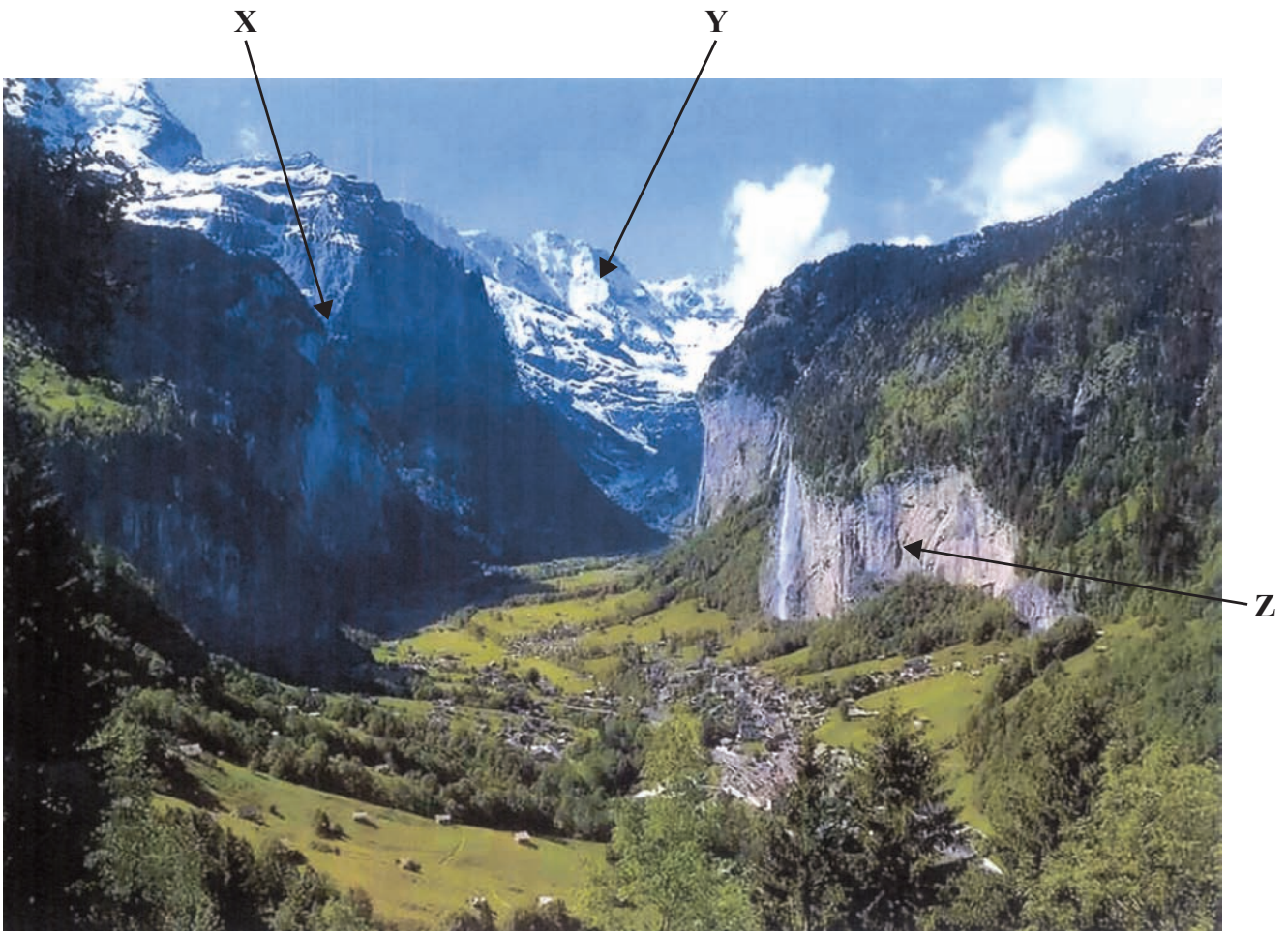


Figure 15

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Figure 17

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Figure 8: Used with permission from Northwest Interpretive Association

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