

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

GCSE GEOGRAPHY (SPECIFICATION A)

F

Foundation Tier

Unit 1 Physical Geography

Tuesday 24 May 2016

Afternoon

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- the colour insert (enclosed)
- a pencil
- a rubber
- a ruler.

You may use a calculator.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- **Answer THREE questions:**
 - **one** question from **Section A (Questions 1 – 4)**
 - **one** question from **Section B (Questions 5 – 7)**
 - **one** other question from **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 75.
- 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.

Advice

Where appropriate, credit will be given for the use of diagrams to illustrate answers and where reference is made to your personal investigative work. You are advised to allocate your time carefully.



Section A

Answer **one** question from Section A and **one** question from Section B and **one** other question from **either** Section A **or** Section B.

Use case studies to support your answers where appropriate.

Total for this question: 25 marks

1 Restless Earth

1 (a) Study **Figure 1** on the insert, an atlas map showing the Earth's tectonic plates.

Use **Figure 1** to complete the Fact File.

[4 marks]

Fact File

Names of plates at **X** on the plate margin _____
plate and _____ plate

Name of volcano at 43°N 122°W _____

Distribution of tectonic features in South America _____

1 (b) What is an ocean trench?

[2 marks]



1 (c) Explain the formation of fold mountains.

[4 marks]

Extra space _____

Question 1 continues on the next page

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- 1 (d)** Study **Figures 2a** and **2b** on the insert, photographs of the Andes, a fold mountain range in South America.

With the help of **Figures 2a** and **2b**, describe how people adapt to steep slopes and limited communications in fold mountain ranges.

[4 marks]

Extra space _____

- 1 (e) (i)** **Two** of the following statements about the Richter scale are correct.

Tick the **two** correct statements.

[2 marks]

The scale is logarithmic.	<input type="checkbox"/>
The strength of an earthquake ranges from I to XII.	<input type="checkbox"/>
The amount of damage is measured.	<input type="checkbox"/>
The strength of an earthquake is measured.	<input type="checkbox"/>



1 (e) (ii) Study **Figure 3** on the insert, a map showing the shaking intensity of the Sendai earthquake near Japan in March 2011.

Use **Figure 3** to complete the sentences below.

[3 marks]

The epicentre was located _____

The highest shaking intensity occurred _____

As distance from the epicentre increased, the shaking intensity _____

Question 1 continues on the next page

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Total for this question: 25 marks

2 Rocks, Resources and Scenery**2 (a)** Study **Figure 4** on the insert, an atlas map showing the geology of the British Isles.Use **Figure 4** to complete the Fact File.**[4 marks]****Fact File**Width of the band of chalk between **X** and **Y** _____ kmThe latitude and longitude for the granite at **Z** _____
_____Distribution of chalk in the British Isles _____

_____**2 (b)** Are the following statements about sedimentary rock **true** or **false**?

Tick the correct boxes.

[2 marks]

	True	False
Sedimentary rocks are formed in layers.		
Sedimentary rocks result from compression.		

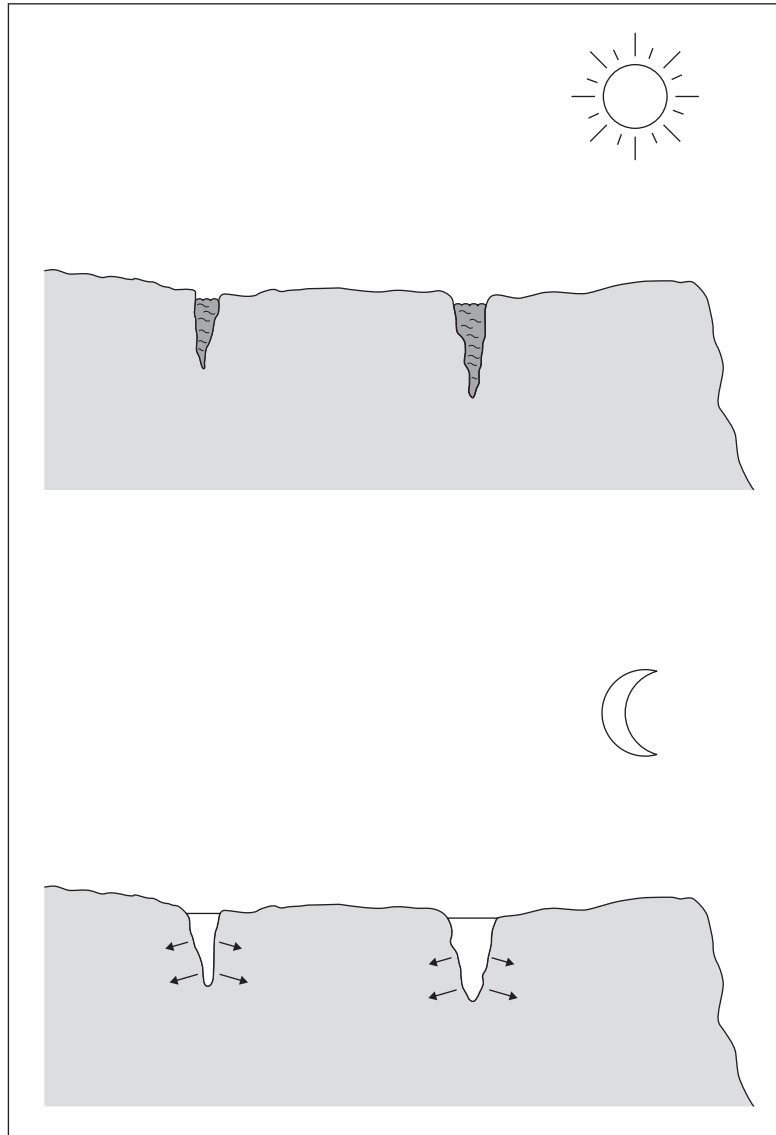
Question 2 continues on the next page**Turn over ►**

2 (c) **Figure 5** shows freeze-thaw weathering.

Add labels to the diagrams to describe the process of freeze-thaw weathering.

[4 marks]

Figure 5



2 (d) (i) Study **Figure 6** on the insert, a photograph of Bowerman’s Nose, a granite tor on Dartmoor.

Three characteristics of the granite tor are shown at **X**, **Y** and **Z**.

Write labels for **X**, **Y** and **Z**.

[3 marks]

X _____

Y _____

Z _____

2 (d) (ii) Explain the formation of a granite tor.

[4 marks]

Extra space _____

Question 2 continues on the next page

Turn over ►



2 (e) Study **Figure 7** on the insert, a diagram showing the layout of the Eden Project, sited in a former china clay quarry in Cornwall.

Describe what you would pass over as you travel on the Skywire from **X** to **Y**.

[2 marks]

2 (f) Use a case study to explain how a quarry is being managed during and/or after extraction.

[6 marks]

Extra space _____



Total for this question: 25 marks

3 The Challenge of Weather and Climate

3 (a) (i) Study **Figure 8** on the insert, an atlas map showing average annual precipitation in the UK.

Use **Figure 8** to complete the Fact File.

[4 marks]

<p>Fact File</p> <p>Average annual precipitation in Oban _____ mm</p> <p>A reason the shading on the key gets darker _____</p> <p>_____</p> <p>Pattern of precipitation in the UK _____</p> <p>_____</p> <p>_____</p>
--

3 (a) (ii) Explain why some areas of the UK get more rainfall than others.

[4 marks]

Extra space _____

Turn over ►



3 (b) Study **Figures 9a** and **9b** on the insert, photographs showing weather in a summer and a winter anticyclone.

3 (b) (i) State **one** characteristic of the weather in a summer anticyclone and **one** different characteristic of the weather in a winter anticyclone. **[2 marks]**

Summer anticyclone _____

Winter anticyclone _____

3 (b) (ii) Complete the sentences below to explain the weather associated with an anticyclone.

Choose the correct words from this list.

[3 marks]

low evaporate rises sinks high condense

An anticyclone is an area of _____ pressure. As the air _____ it warms. As a result, water vapour in the air does not _____ resulting in the weather associated with an anticyclone.

3 (c) (i) Outline **one** possible cause of global warming. **[2 marks]**



3 (c) (ii) Study **Figure 10** on the insert, a map showing some predicted worldwide impacts of global warming. These are numbered 1 to 11.

Use **Figure 10** to complete the table below.

Write **one** number in each category.

[4 marks]

Category of impact	Number
Positive economic	
Negative economic	
Positive political	
Negative social	

Question 3 continues on the next page

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ANSWER IN THE SPACES PROVIDED**

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Total for this question: 25 marks**4 Living World****4 (a) (i)** Study **Figure 11** on the insert, an atlas map showing world ecosystems.Use **Figure 11** to complete the Fact File.**[4 marks]****Fact File**

Location of the largest area of hot desert _____

The direction of flow of the River Nile from Lake Victoria to Mediterranean Sea

Global distribution of tropical rainforest _____

4 (a) (ii) Complete the following sentences to explain why different ecosystems are found in different parts of the world.**[4 marks]**

Temperate deciduous forest is found in certain areas because the climate is _____

Hot desert vegetation is found in different areas because the soil is _____



4 (b) (i) Study **Figure 12** on the insert, a photograph of vegetation in a tropical rainforest.

Give **one** characteristic of the leaves, trunks and roots shown at **X, Y** and **Z** on **Figure 12**.

[3 marks]

X – Leaves _____

Y – Trunks _____

Z – Roots _____

4 (b) (ii) Explain how vegetation in tropical rainforests adapts to the climate.

[4 marks]

Extra space _____

Question 4 continues on the next page

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4 (c) Study **Figures 13a** and **13b**, graphs showing the climate and population of Las Vegas, a city in an area of hot desert in the United States of America.

Figure 13a

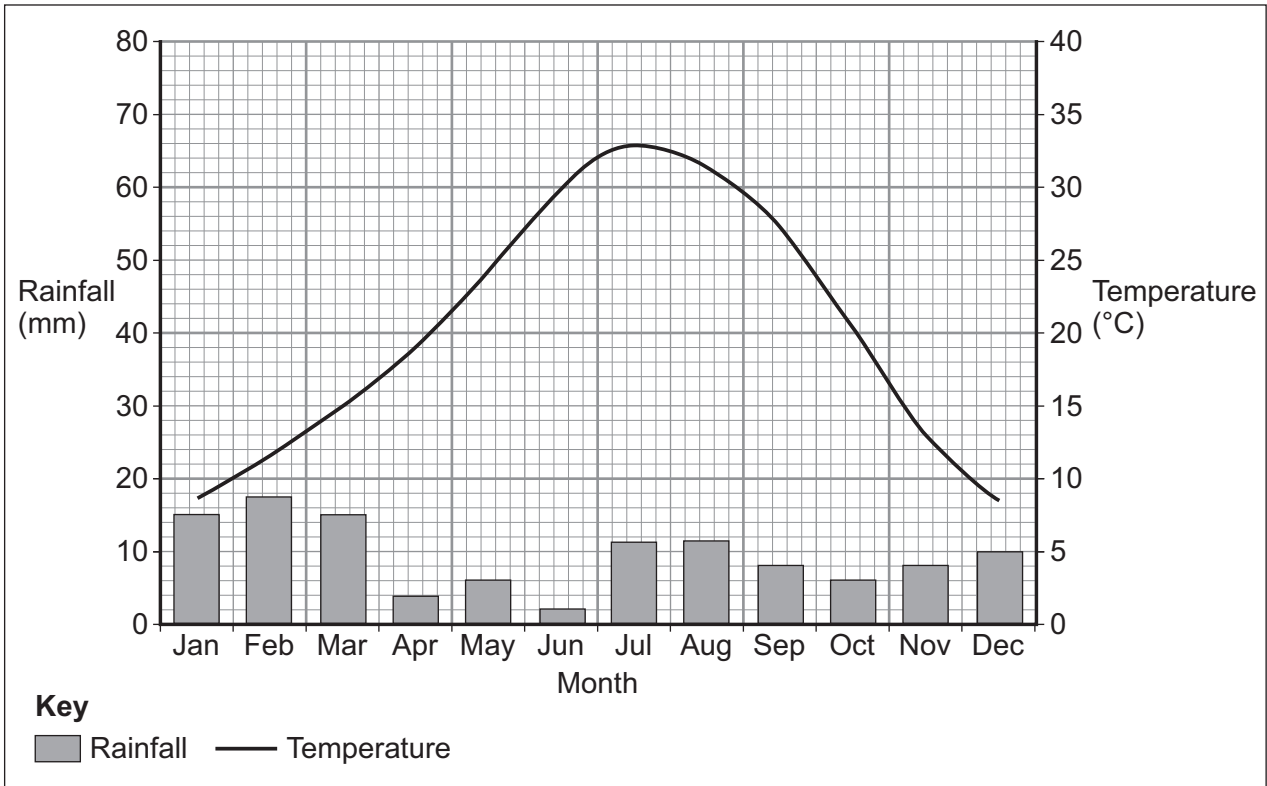
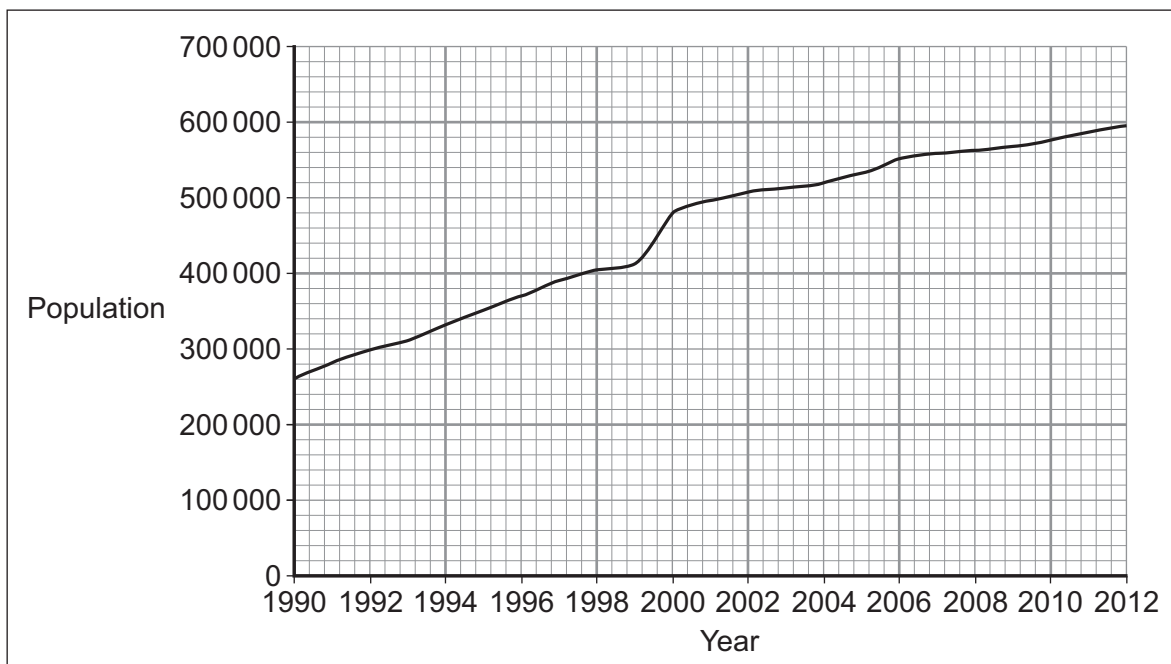


Figure 13b



4 (c) (i) Give **two** characteristics of the climate of Las Vegas.

[2 marks]

1 _____

2 _____

4 (c) (ii) The following statements describe the changes in the population of Las Vegas from 1990 to 2012.

Use **Figure 13b** to decide which **two** statements are true.

Tick the correct boxes.

[2 marks]

Population increased fastest between 1999 and 2000.	<input type="checkbox"/>
Population has tripled from 1990 to 2012.	<input type="checkbox"/>
Population increased fastest between 2010 and 2012.	<input type="checkbox"/>
Population has more than doubled from 1990 to 2012.	<input type="checkbox"/>

Question 4 continues on the next page

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Section B

Answer **one** question from Section A and **one** question from Section B and **one** other question from **either** Section A **or** Section B.

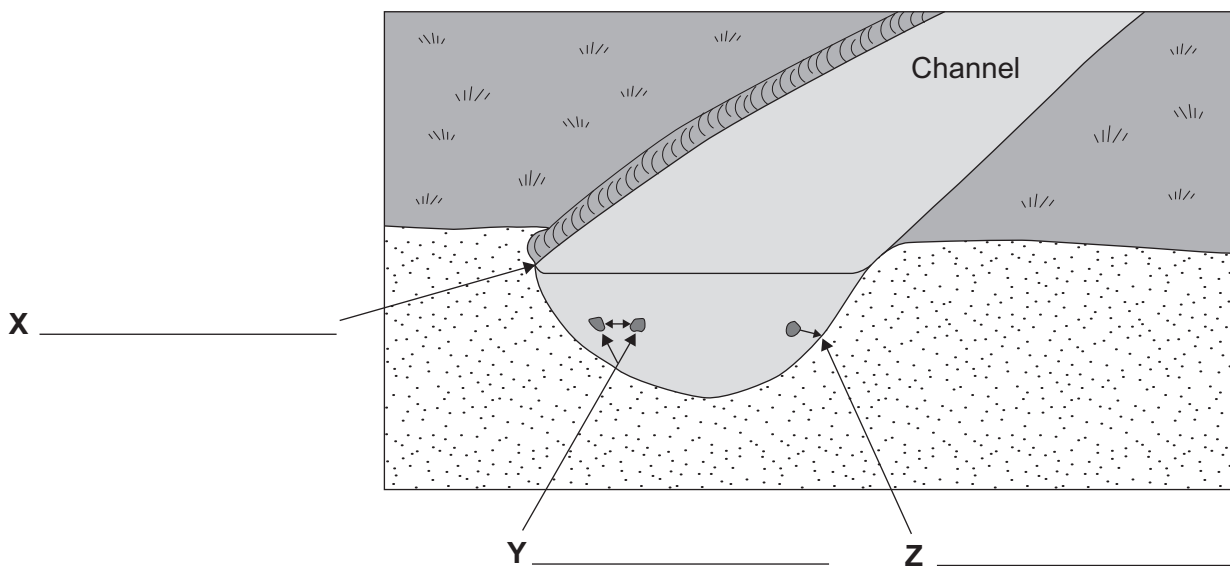
Use case studies to support your answers where appropriate.

Total for this question: 25 marks

5 Water on the Land

5 (a) Study **Figure 14**, a block diagram of a river channel.

Figure 14



On **Figure 14**, label the processes that are occurring at **X**, **Y** and **Z**.

Choose the correct words from this list.

[3 marks]

lateral erosion

abrasion

attrition

vertical erosion

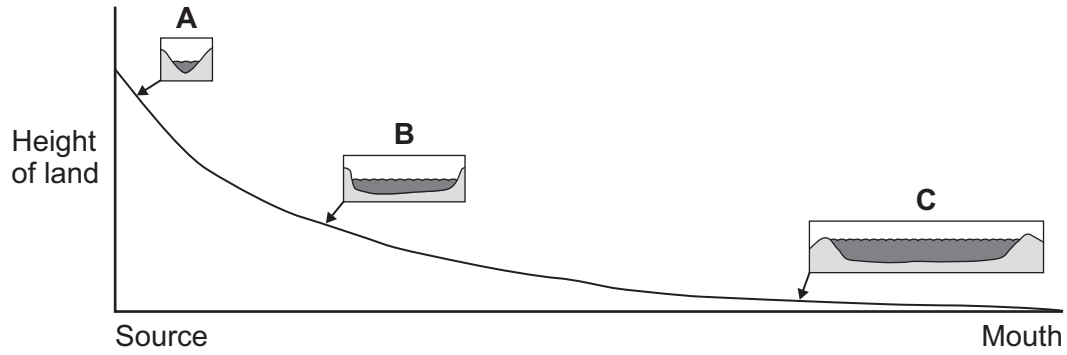
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5 (b) Study **Figure 15**, a diagram showing how the cross profile of a river channel changes downstream.

Figure 15



Describe the cross profile of the river channel at each of the following stages.

[3 marks]

Stage A _____

Stage B _____

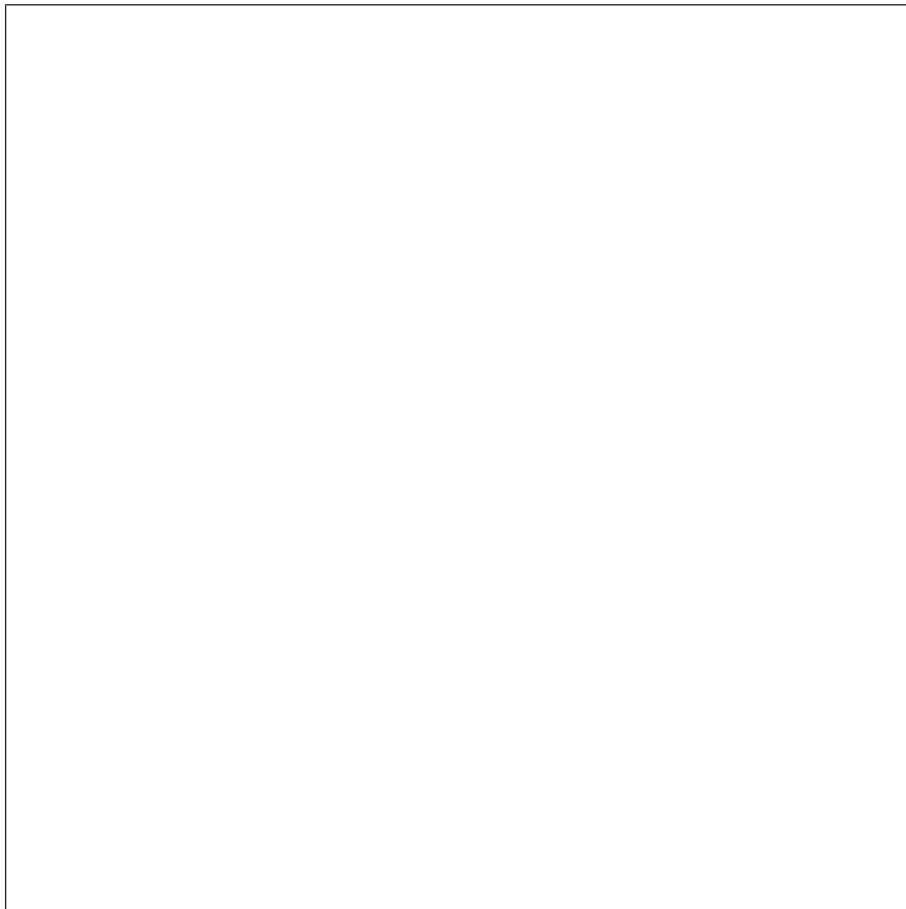
Stage C _____



5 (c) (i) Study **Figure 16** on the insert, an aerial photograph of meanders on the River Rede in Northumberland.

Draw a labelled plan to show the characteristics of these meanders.

[4 marks]



Question 5 continues on the next page

Turn over ►



5 (c) (ii) Explain the formation of an ox-bow lake.

[4 marks]

Extra space

5 (d) (i) Outline **one** cause of flooding.

[2 marks]



Total for this question: 25 marks

6 Ice on the Land

6 (a) Study **Figure 18** on the insert, a map showing the extent of ice cover in the Northern Hemisphere during the last Ice Age.

6 (a) (i) Are the following statements about the extent of ice cover **true** or **false**?

Tick the **correct** boxes.

[3 marks]

	True	False
Ice sheets extended furthest south in Asia		
The Scandinavian ice sheet covered most of the UK		
The Laurentide ice sheet extended to about 40 degrees North		

6 (a) (ii) Explain why glaciers retreat.

Use the words below in your answer.

[3 marks]

accumulation**ablation****glacial budget**



6 (b) Outline **one** way in which ice transports material.

[2 marks]

Question 6 continues on the next page

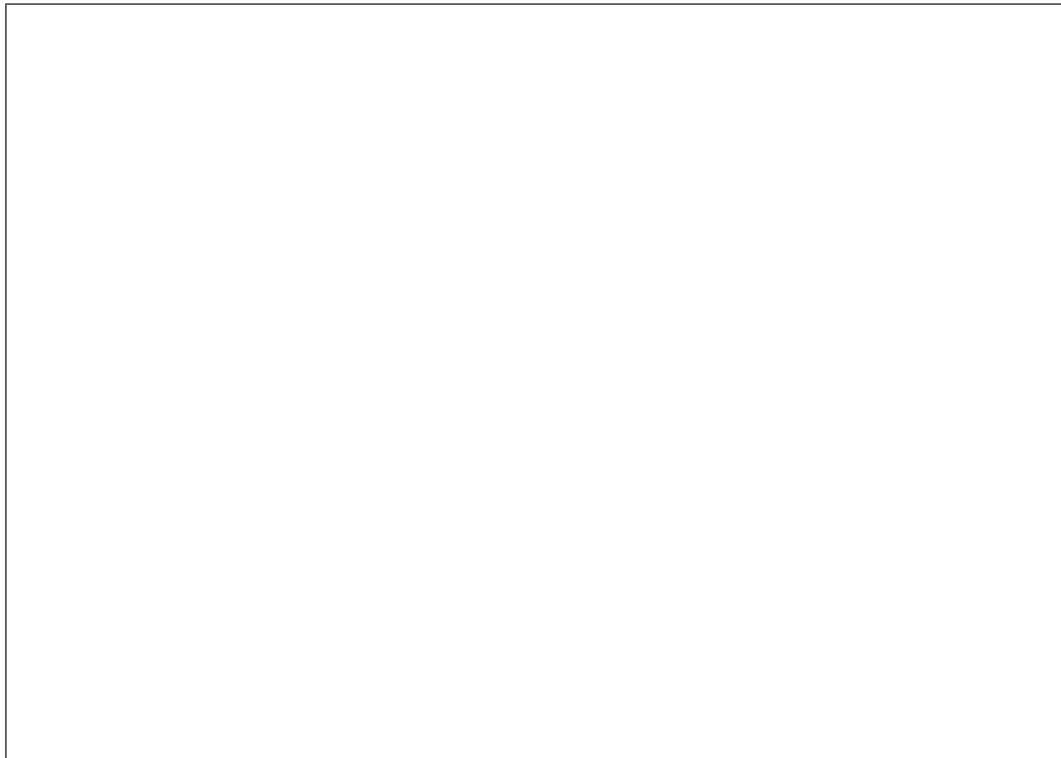
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6 (c) (i) Study **Figure 19** on the insert, a photograph of a glacial landscape in Canada.

Draw a labelled sketch to show the features of this glacial landscape.

[4 marks]



6 (c) (ii) Explain the formation of lateral moraine.

[4 marks]

Extra space _____

Question 6 continues on the next page

Turn over ►



6 (d) (i) Study **Figure 20** on the insert, a photograph of an avalanche.

Give **three** characteristics of this avalanche.

[3 marks]

- 1 _____
- 2 _____
- 3 _____

6 (d) (ii) Describe the methods used to reduce the risk of avalanches.

[6 marks]

Extra space _____



Total for this question: 25 marks

7 Coastal Zone

7 (a) Study **Figure 21** on the insert, a photograph of waves breaking at Aberystwyth, mid-Wales.

7 (a) (i) Give **one** characteristic of wave height, power and impact on the promenade.

[3 marks]

Wave height _____

Wave power _____

Wave impact _____

7 (a) (ii) With the help of **Figure 21**, explain how the waves will erode the coast.

[3 marks]

Question 7 continues on the next page

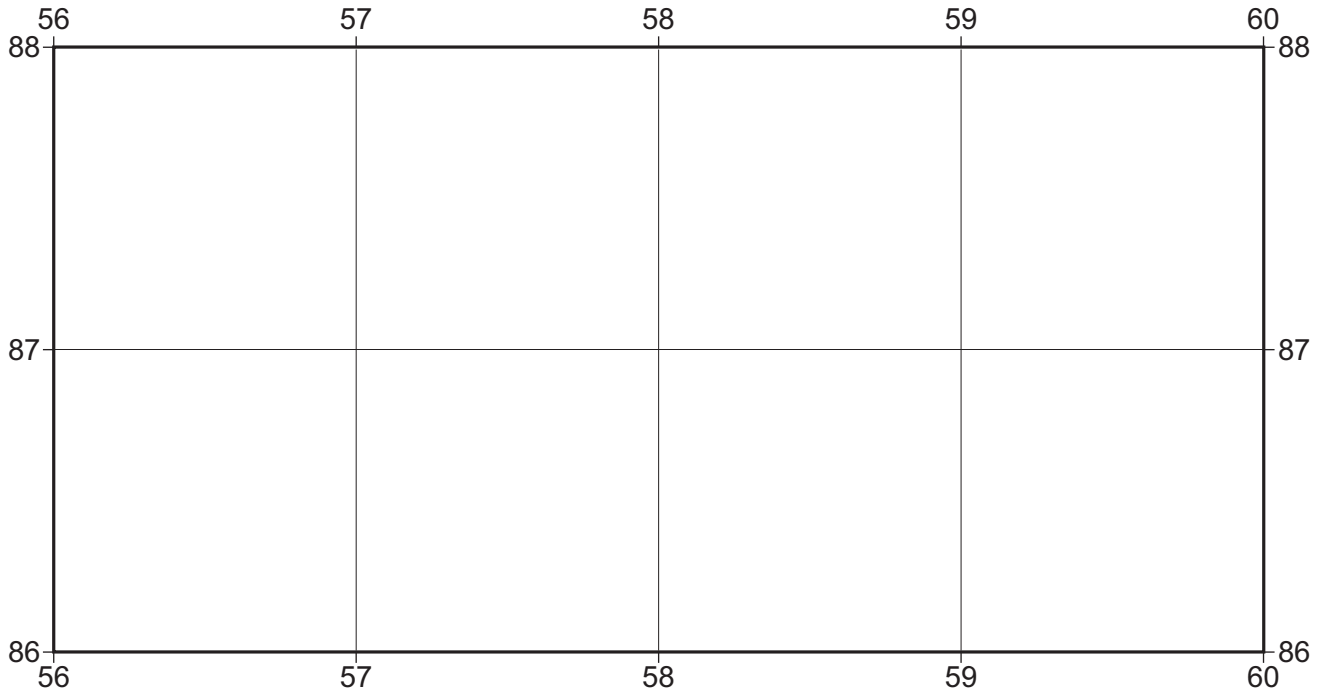
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7 (b) (i) Study **Figure 22** on the insert, a 1:25 000 Ordnance Survey map extract of the Gower Peninsula in South Wales.

Draw a labelled sketch map to show the features of this coastline.

[4 marks]



7 (b) (ii) Explain the formation of headlands and bays.

[4 marks]

Extra space

7 (c) Outline **one** reason for rising sea level.

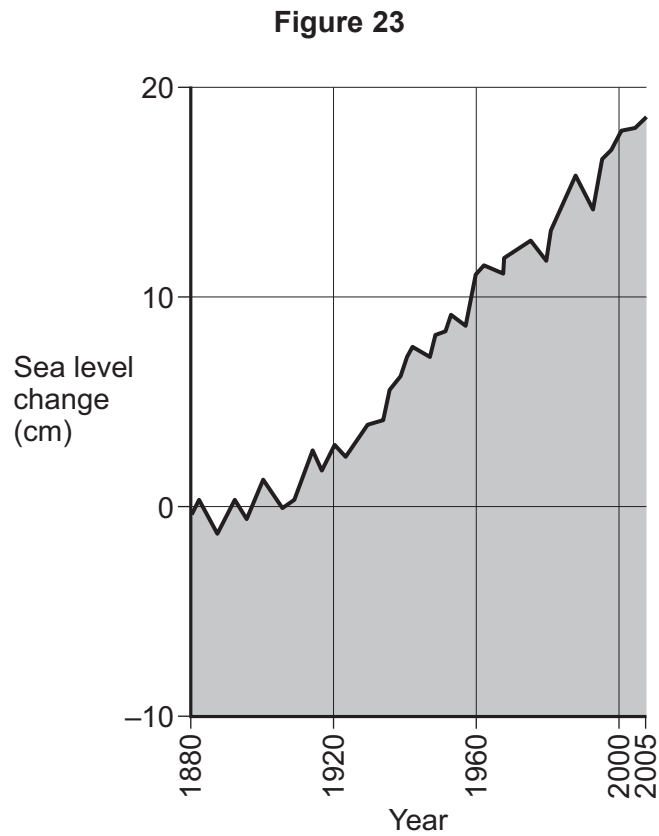
[2 marks]

Question 7 continues on the next page

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7 (d) Study **Figure 23**, a graph showing global change in sea level from 1880 to 2005.



Use **Figure 23** to complete the sentences below.

[3 marks]

Between 1880 and 2005, sea level increased by _____ cm.

From 1880, it took _____ years for sea level to rise by 10 cm.

Rates of increase from 1960 have _____



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