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| Centre number | | Candidate number | |
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GCSE GEOGRAPHY

Paper 1 Living with the physical environment

Tuesday 22 May 2018

Afternoon

on Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- the 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 all questions in Section A and Section B.

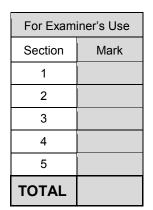
Answer two questions in Section C.

 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.

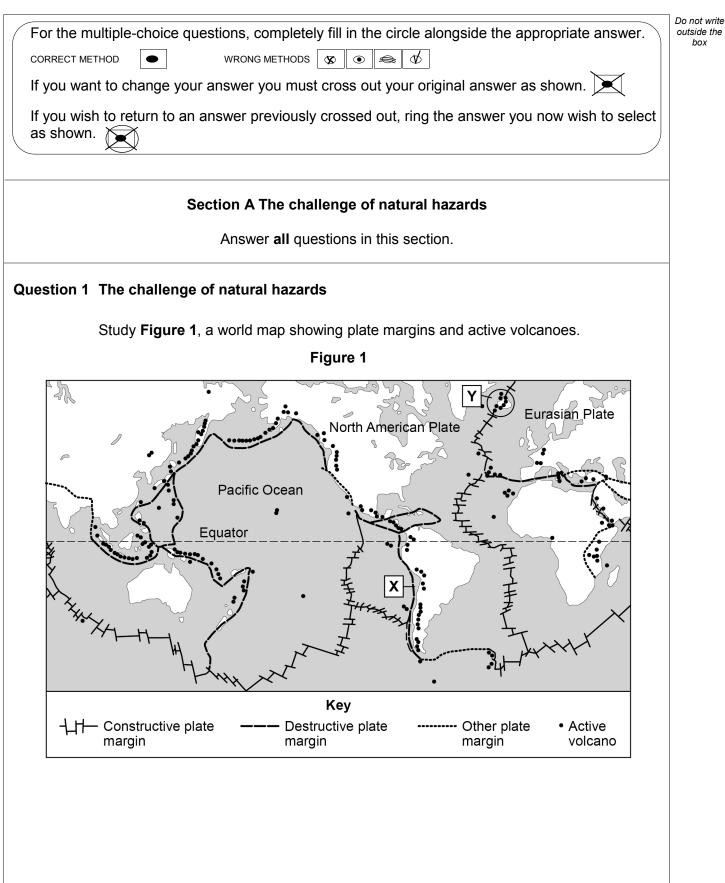
Information

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 88.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Question 01.12.





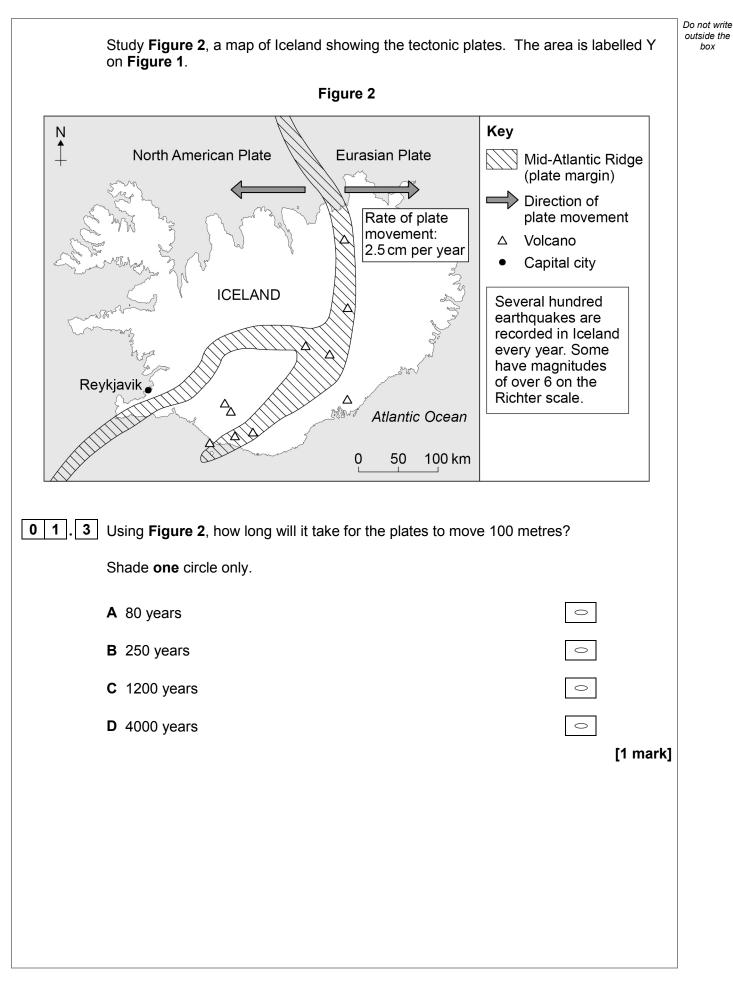






| 0 1 1 | Using Figure 1 , which one of the following statements is true? | | | Do not writ outside the box |
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| | Shade one circle only. | | | |
| | A All active volcanoes occur in lines along plate margins. | 0 | | |
| | B There are more active volcanoes along constructive margins than destructive margins. | 0 | | |
| | C There are many active volcanoes around the edge of the Pacific Ocean. | 0 | | |
| | D Active volcanoes are found along the eastern side of North and South America. | 0 | | |
| | | | [1 mark] | |
| 0 1.2 | Describe the movement of plates along plate margin X. | | [1 mark] | |
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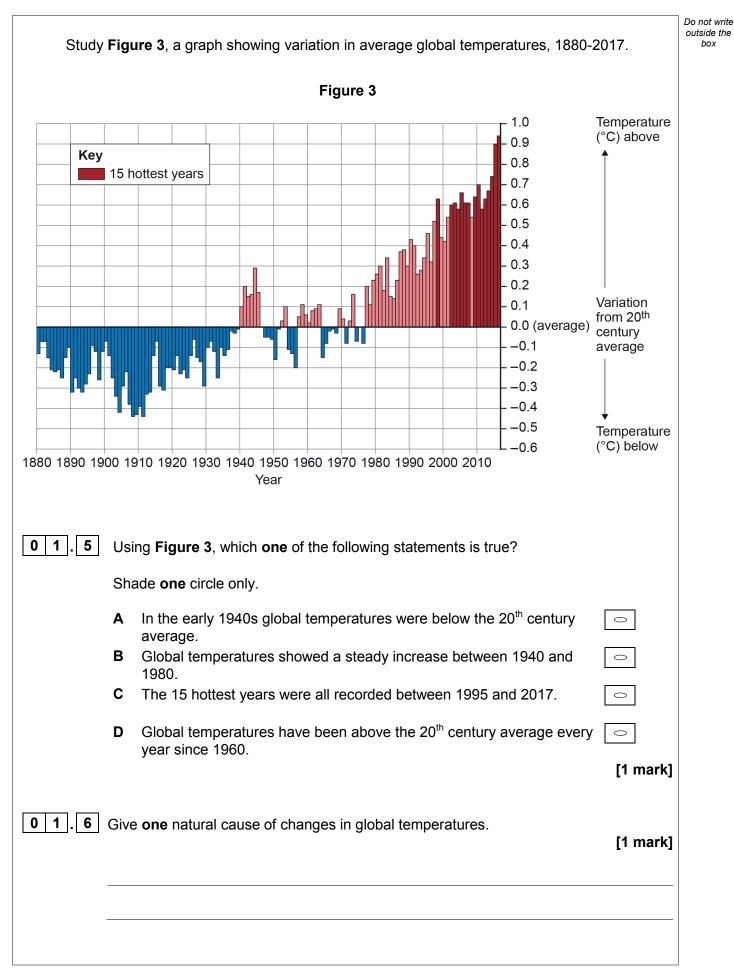




| 0 1.4 | Using Figure 2 and your own understanding, suggest how plate movements caus tectonic hazards in Iceland. | |
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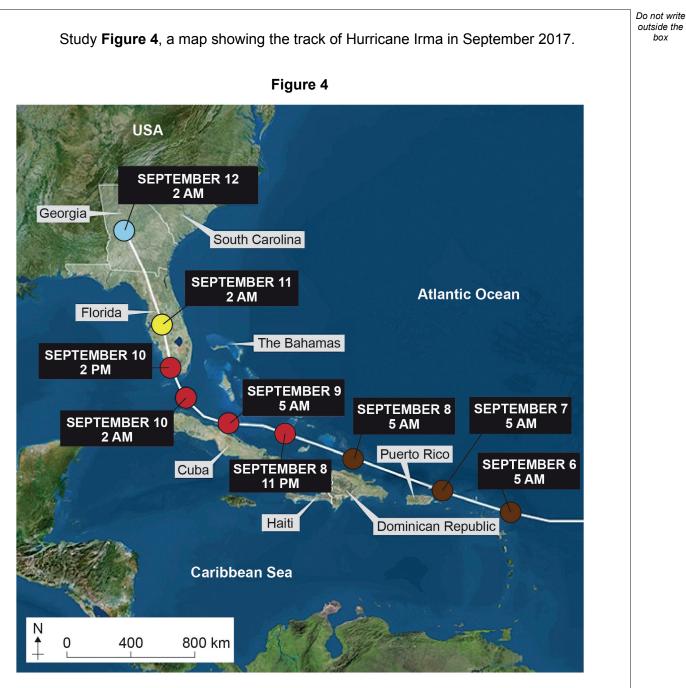
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| 01.7 | Give two pieces of evidence, other than the change in global temperature, that show climate change has taken place. [2 marks] 1 2 | Do not write outside the box |
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| 0 1.8 | Explain how the increasing use of fossil fuels and changes in agriculture may have contributed to global changes in temperature. [4 marks] | |
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Saffir-Simpson Hurricane Wind Scale

| Category | Wind speed (km/hour) | |
|----------|----------------------|------------|
| 1 | 119–153 | \bigcirc |
| 2 | 154–177 | \bigcirc |
| 3 | 178–208 | |
| 4 | 209–251 | |
| 5 | 252 or higher | |



| 0 1 9 | Using Figure 4, describe the track of Hurricane Irma between 6 September 2017 and 12 September 2017. [2 marks] | Do not write outside the box |
|--------|--|------------------------------------|
| 0 1. 1 | Using Figure 4, what happened to the wind speed of Hurricane Irma between 8 and 12 September 2017? [1 mark] | |
| 0 1. 1 | 1 Give one reason why the wind speed of a tropical storm (hurricane) may change as it reaches land. [1 mark] | |
| | Question 1 continues on the next page | |
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Study **Figure 5**, a news report and photograph showing the effects of Hurricane Irma on the Dutch island of Sint Maarten.

Figure 5

'Hurricane Irma hit several islands in the Caribbean on 6 September 2017, with devastating consequences for the local population. On Sint Maarten, it has so far resulted in eight deaths. Officials say that 95% of the island has been destroyed and the international airport and harbour have been seriously damaged. Power, running water and most communications have been knocked out by this powerful storm.'



Photo: Overturned shipping containers in Sint Maarten

0 1. **1 2** Assess the extent to which tropical storms have effects on people and the environment.

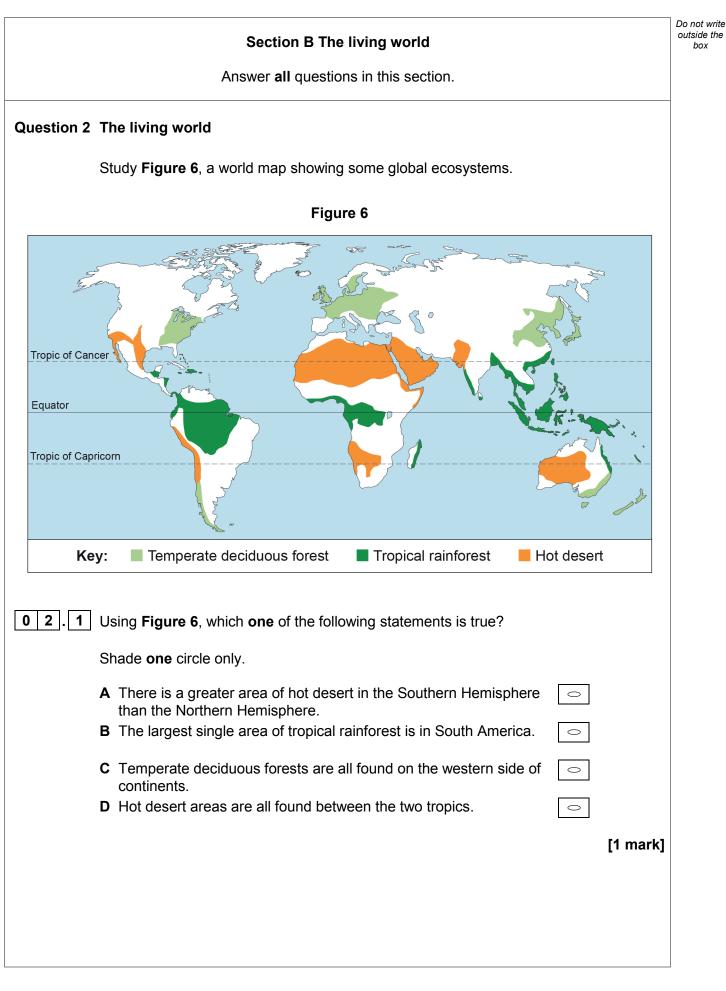
Use Figure 5 and an example you have studied.

[9 marks] [+ 3 SPaG marks]



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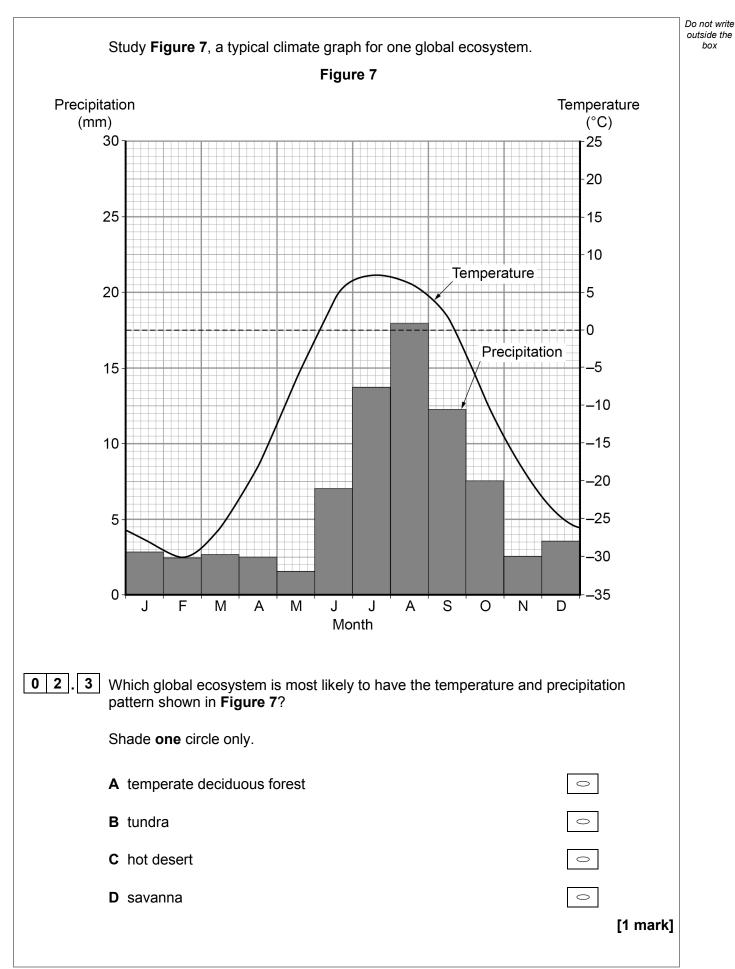






| 02.2 | Outline one reason for the distribution of tropical rainforest. | [2 marks] | Do not write outside the box |
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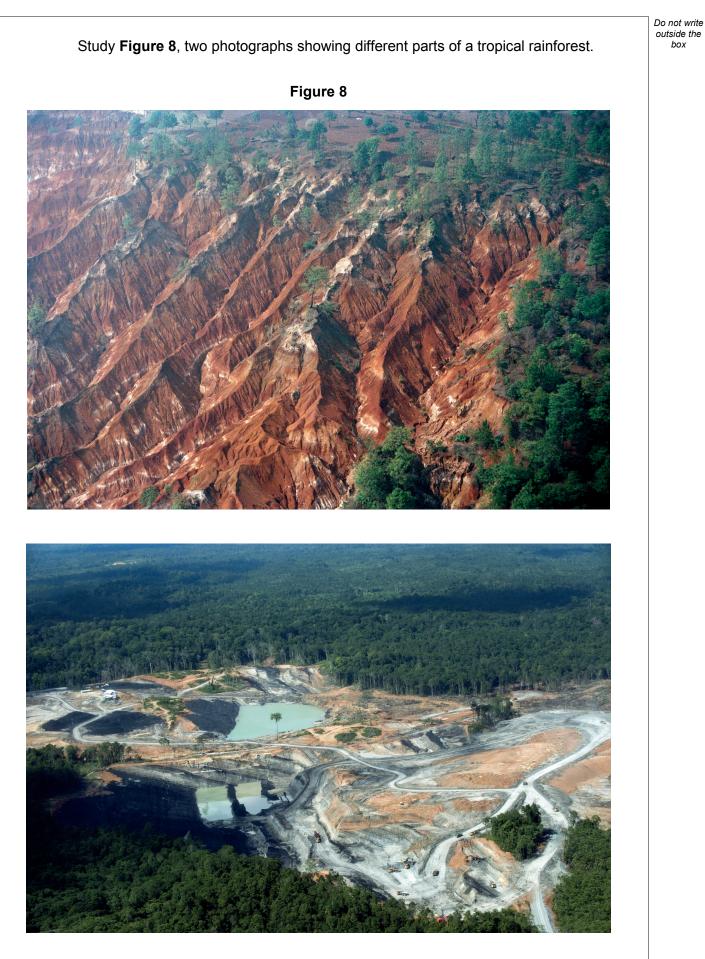






| 02.4 | State the minimum temperature shown in Figure 7. | | o not write utside the box |
|------|--|-----------------|----------------------------------|
| | Shade one circle only. | | |
| | A −26°C | | |
| | B –28°C | | |
| | C –30°C | | |
| | D -32°C | | |
| | | [1 mark] | |
| 02.5 | Give one reason why polar regions have low temperatures throughout the ye | ar. [1 mark] | |
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| 02.6 | Using Figure 8 and your own understanding, explain how development in tro rainforests creates economic advantages but at a cost to the environment. | opical [6 marks] | Do not write outside the box |
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Study Figure 9, a photograph of part of an ecotourism scheme in the Amazon rainforest, Brazil. Figure 9 0 2 Using Figure 9, suggest how ecotourism can help in managing tropical rainforests 7 sustainably. [2 marks] 8 Explain how either international hardwood agreements or selective logging can 0 2 . encourage the sustainable management of tropical rainforests. [2 marks]



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| 02.9 | Choose one of the following environments. | outside the box |
| | Hot desert environment | |
| | Cold environment | |
| | Tick the box to show which environment you have chosen. | |
| | Using a case study, to what extent have opportunities for economic activity been | |
| | developed in your chosen environment? [9 marks] | |
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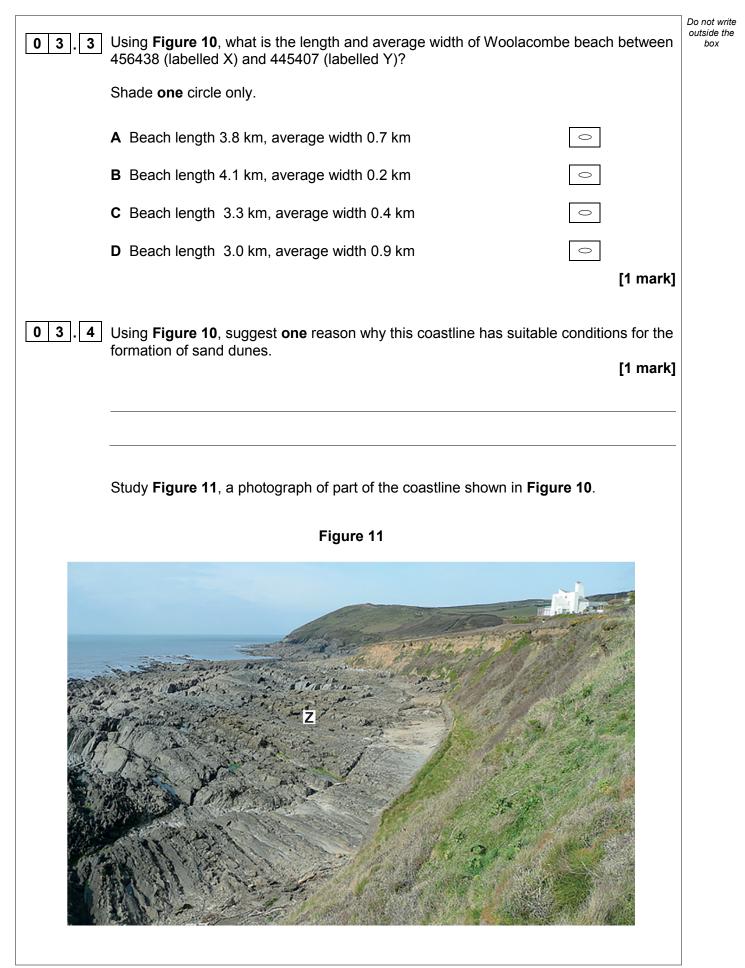


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| | Section C Physical landscapes in the UK | | Do not write outside the box | | |
|---|--|----------------|------------------------------------|--|--|
| Answer two questions from the following: | | | | | |
| | Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial). | | | | |
| Question 3 | Coastal landscapes in the UK | | | | |
| | Study Figure 10 on the insert, a 1:50 000 Ordnance Survey map of tharea in North Devon. | ne Woolacombe | | | |
| 0 3.1 | Using Figure 10, give the four-figure grid reference for a headland wi | th cliffs. | | | |
| | Shade one circle only. | | | | |
| | A 4542 | 0 | | | |
| | B 4643 | 0 | | | |
| | C 4240 | 0 | | | |
| | D 4441 | 0 | | | |
| | | [1 mark |] | | |
| 0 3.2 | Using Figure 10 , which of the following coastal features is not shown 4339? | in grid square | | | |
| | Shade one circle only. | | | | |
| | A An area of sand dunes | 0 | | | |
| | B A rocky wave cut platform | 0 | | | |
| | C A wide sandy beach | 0 | | | |
| | D A coastal spit | 0 | | | |
| | | [1 mark | 3 | | |
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| Question 3 continues on the next page | | | | | |
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| 03.5 | Using Figure 11, identify the landform marked Z. [1 mark] | Do not write outside the box |
|------|---|------------------------------------|
| | | |
| 03.6 | Explain how a coastline of headlands and bays forms and changes over time. [4 marks] | |
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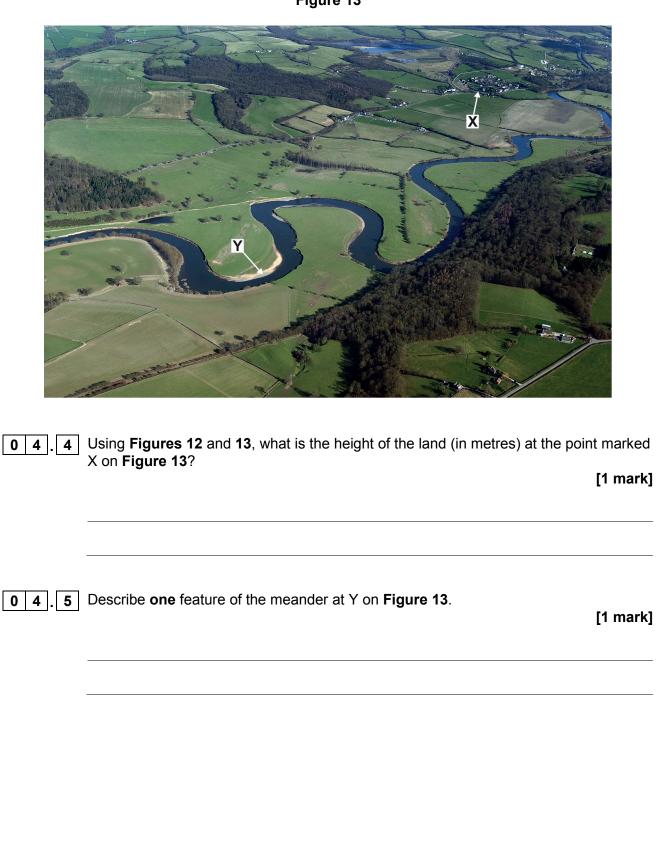
| 0 3.7 | 'Coastal management schemes are effective in protecting the coastline from physical processes.' | Do not write outside the box |
|-------|---|------------------------------------|
| | Do you agree? | |
| | Using an example, explain your answer. [6 marks] | |
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| Question 4 | River landscapes in the UK | Do not write outside the box |
| | Study Figure 12 on the insert, a 1:50 000 Ordnance Survey map of the River Severn in Shropshire. | |
| 04.1 | Using Figure 12, give the four-figure grid reference for a river floodplain. | |
| | Shade one circle only. | |
| | A 6407 | |
| | B 6304 | |
| | C 6205 | |
| | D 6005 | |
| | [1 mark] | |
| 04.2 | Using Figure 12 , which of the following statements best describes the features of grid square 6205? | |
| | Shade one circle only. | |
| | A A steeply sloping wooded area rising to over 250 metres in the orth. | |
| | B A gently sloping river valley with a small tributary entering from the onrth. | |
| | C A south facing slope with a stream and small tributary flowing | |
| | A wide flat river valley with a steeper slope in the north, rising from 50 to 80 metres. | |
| | [1 mark] | |
| 04.3 | Suggest one way the upper course of the River Severn may be different from that | |
| | shown in Figure 12. [1 mark] | |
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Study **Figure 13**, a photograph of the River Severn and its valley. The photographer was looking north east.

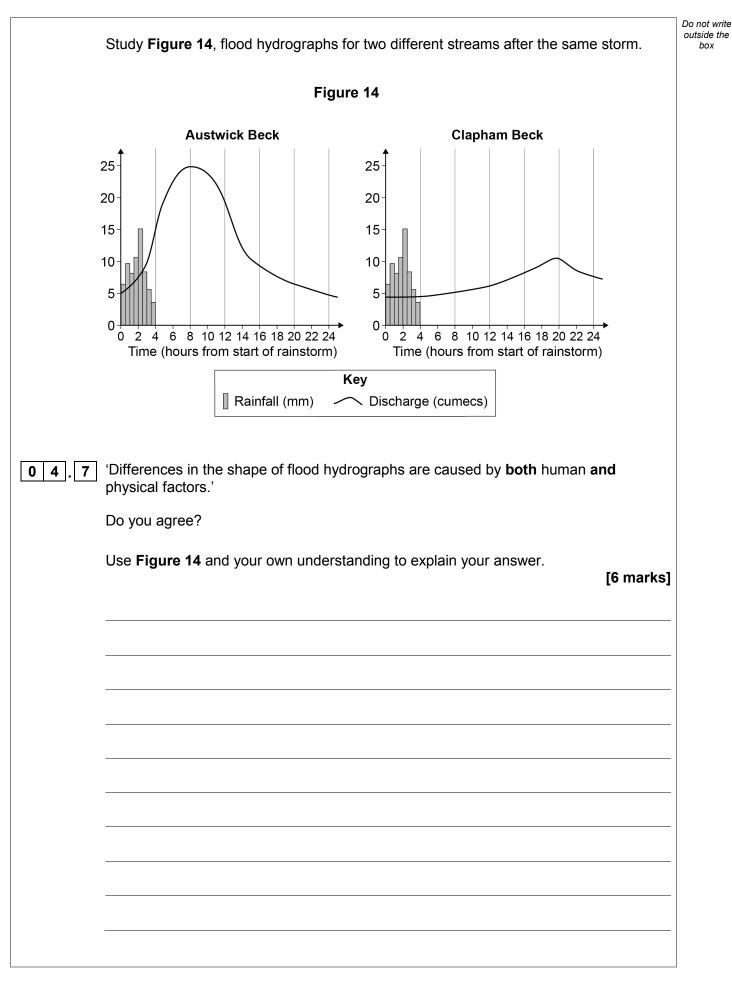






| 04.6 | Explain how river meanders may change over time. | Do not write outside the box |
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| Question 5 | Glacial landscapes in the UK | Do not write outside the box | |
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| | Study Figure 15 on the insert, a 1:50 000 Ordnance Survey map of part of the Cairngorm Mountains in Scotland. | | |
| | | | |
| 0 5.1 | Using Figure 15, which grid square matches the following description? | | |
| | 'There is a valley with a stream in the north. The land rises steeply southwards. It becomes more gentle towards the summit in the south, reaching a height of almost 1000 metres.' | | |
| | Shade one circle only. | | |
| | A 0201 | | |
| | B 0299 | | |
| | C 9900 | | |
| | D 9902 | | |
| | [1 m | nark] | |
| 0 5.2 | Locate Loch Avon centred in grid square 0102. What is the length (between points and Y) and maximum depth of Loch Avon? | s X | |
| | Shade one circle only. | | |
| | A Length 2.5 km, maximum depth over 30 metres | | |
| | B Length 4.6 km, maximum depth 30 metres | | |
| | C Length 2.1 km, maximum depth 40 metres | | |
| | D Length 4.8 km, maximum depth over 40 metres | | |
| | [1 m | nark] | |
| 0 5.3 | Suggest one reason for the shape of Loch Avon. [1 m | nark] | |
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Study **Figure 16**, a photograph of Loch Etchachan, with Ben Macdui (989989) in the background.

| background. | |
|--|-----------------------------|
| Figure 16 | |
| | |
| 0 5. 4 Using Figures 15 and 16 , in which direction was the pl picture was taken? Shade one circle only. | notographer facing when the |
| A South east | 0 |
| B South west | 0 |
| C North west | 0 |
| D North east | O [1 mark] |
| 05 . 5 Describe one feature of the corrie at Z on Figure 16 . | [1 mark] [1 mark] |
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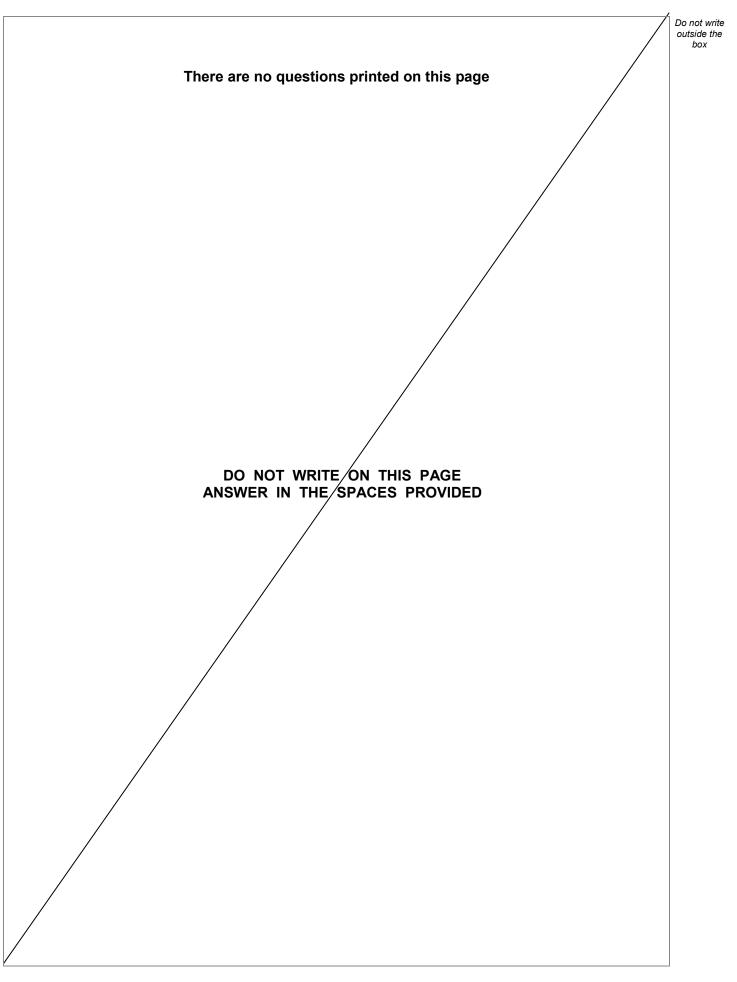
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| 0 5.6 | Explain how a corrie forms and changes over time. [4 marks] | Do not write outside the box |
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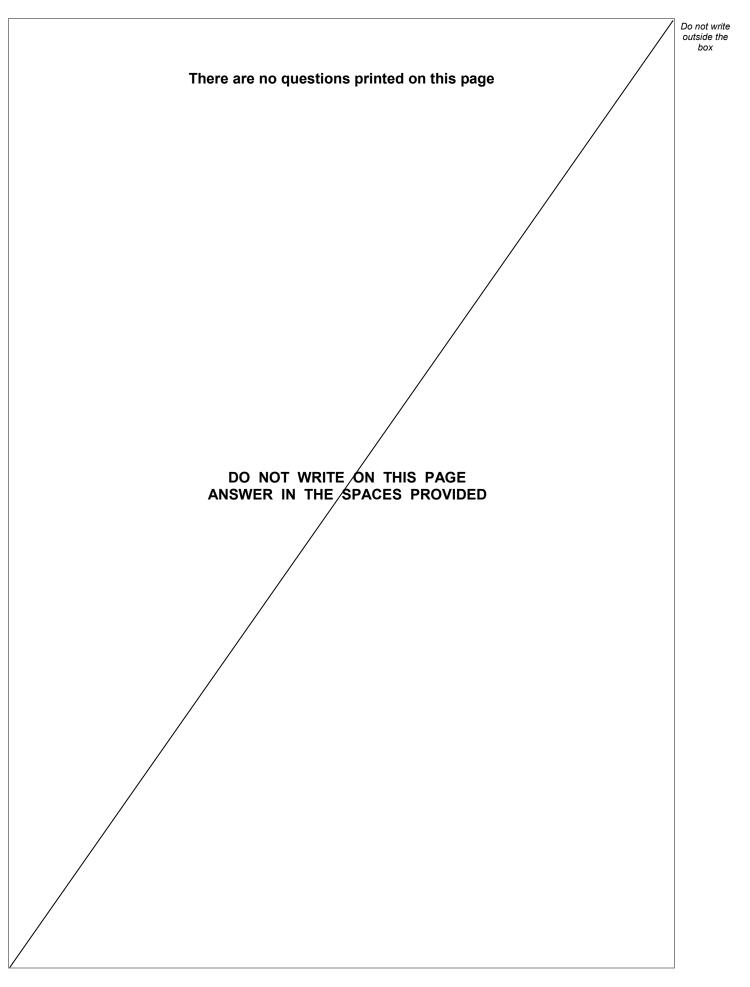


| 0 5.7 | 'The growing number of visitors to glaciated upland areas in the UK can only bring advantages.' | Do not write outside the box |
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| | Do you agree? | |
| | Use an example to explain your answer. [6 marks] | |
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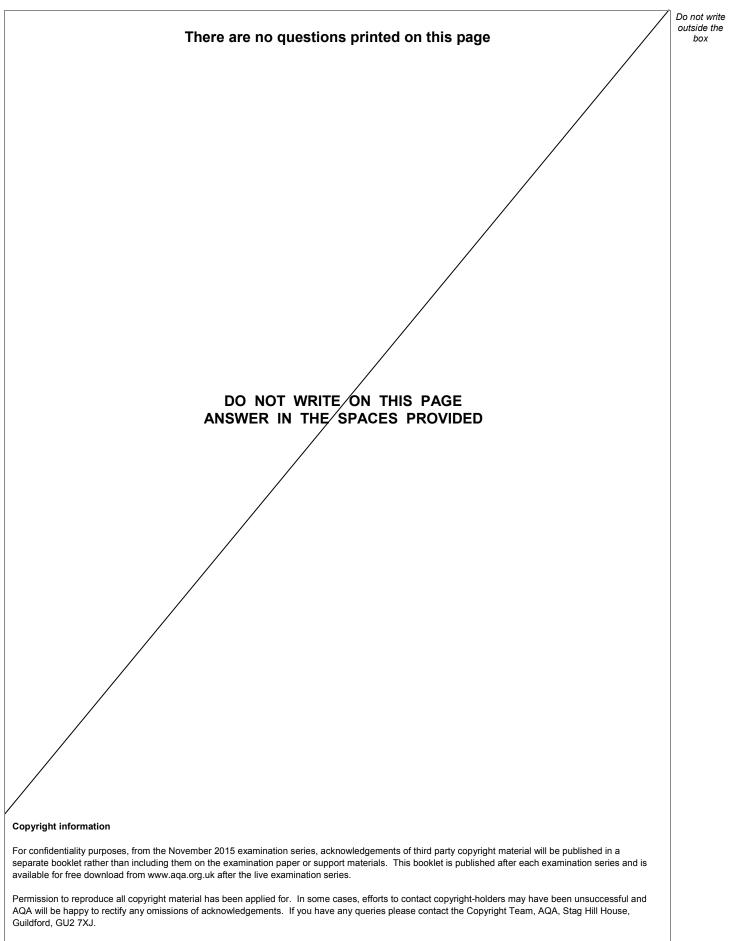












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