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GCSE GEOGRAPHY

Paper 1 Living with the physical environment

Tuesday 22 May 2018

Afternoon

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.

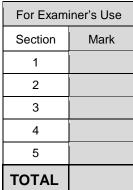
Information

- 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.

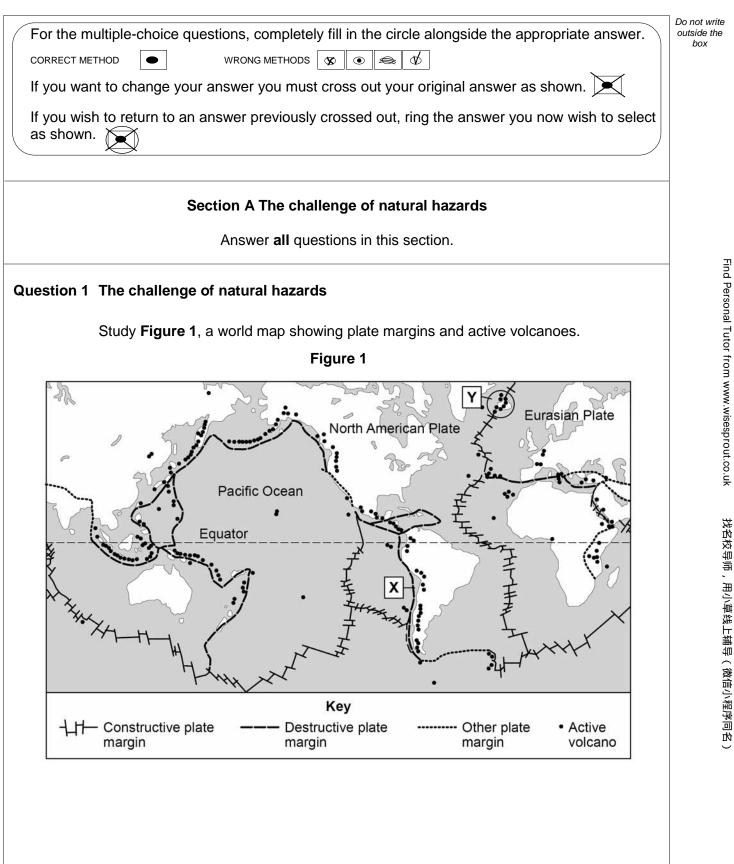


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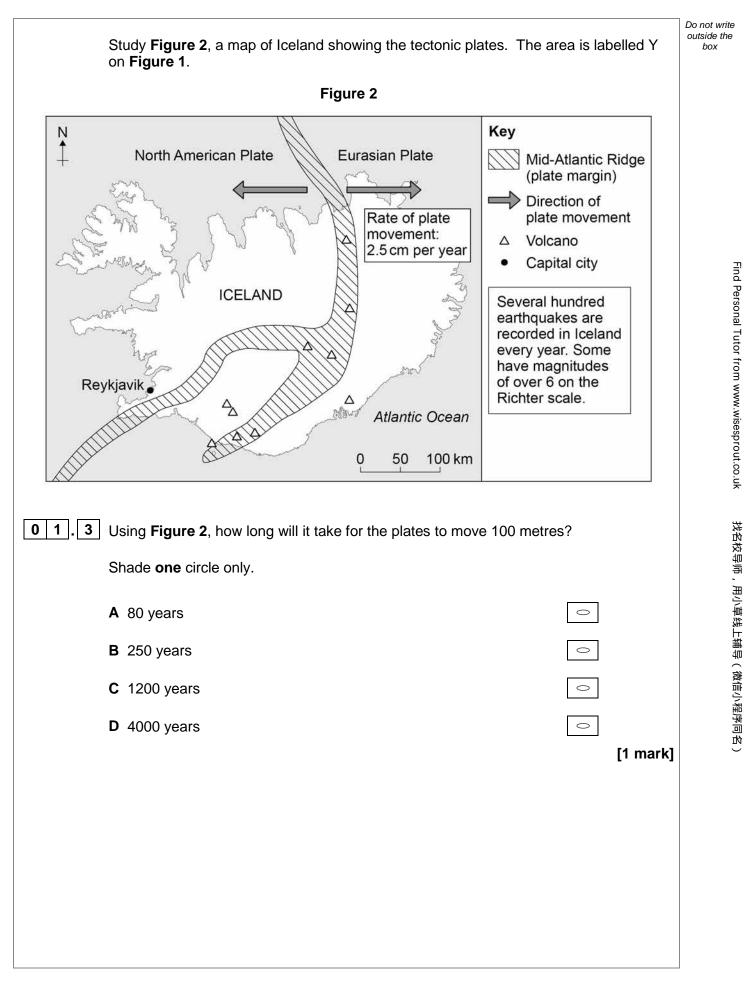






0 1.1	Using Figure 1, which one of the following statements is true?			Do not write outside the box
	Shade one circle only.			
	A All active volcanoes occur in lines along plate margins.	0		
	B There are more active volcanoes along constructive margins than destructive margins.	0		
	C There are many 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		п
			[1 mark]	ind Pers
0 1.2	Describe the movement of plates along plate margin X.		[1 mark]	sonal Tutor frc
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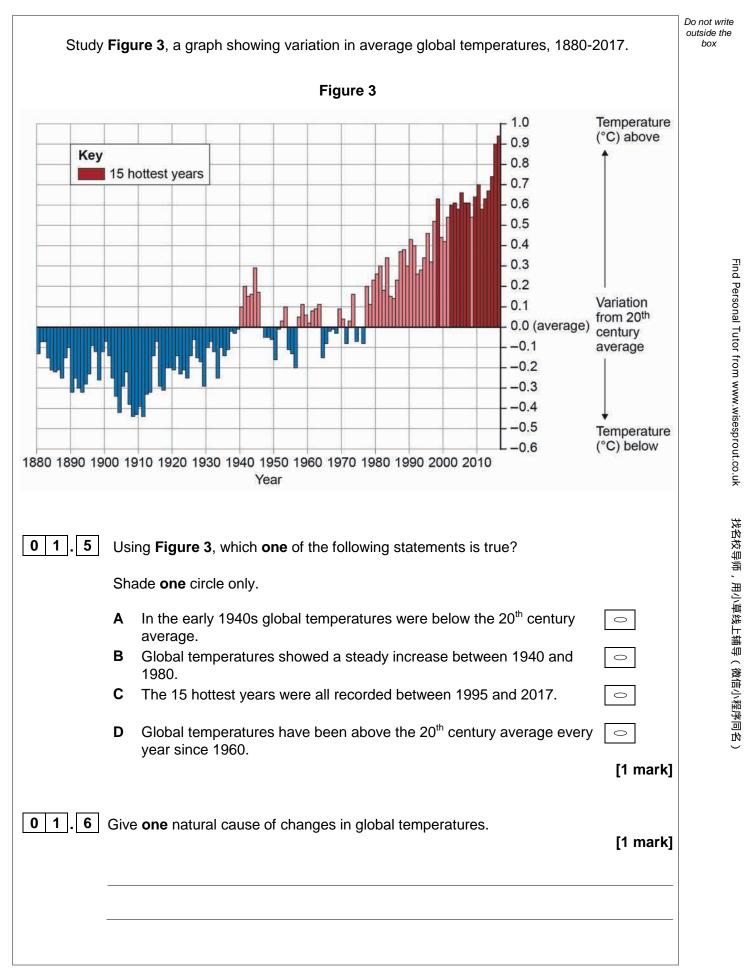






0 1.4	Using Figure 2 and your own understanding, suggest how plate movements tectonic hazards in Iceland.	cause	Do not write outside the box
		[6 marks]	
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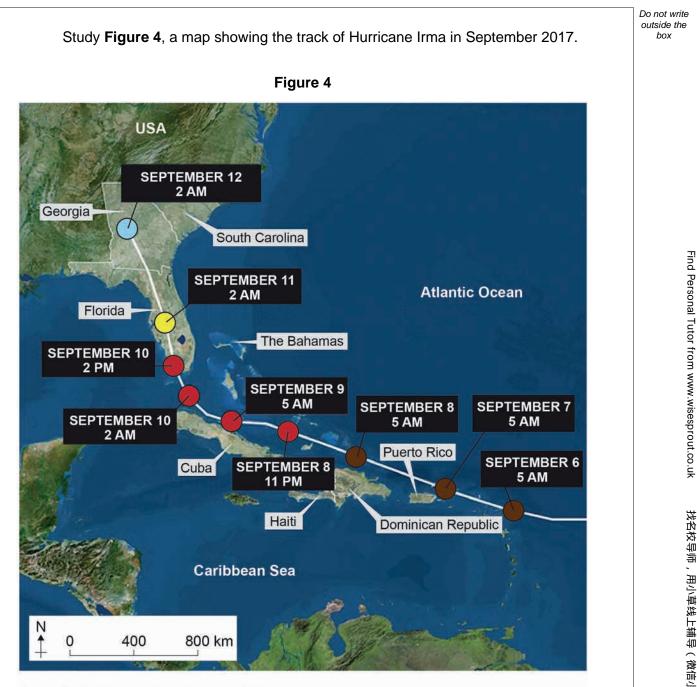




0 1.7	Give two pieces of evidence, other than the change in global temperature, that show climate change has taken place. [2 marks] 1	Do not write outside the box
	2	
0 1.8	Explain how the increasing use of fossil fuels and changes in agriculture may have contributed to global changes in temperature. [4 marks]	Find Personal Tu
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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	0
4	209-251	
5	252 or higher	



01.9	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] 	
01.1	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.

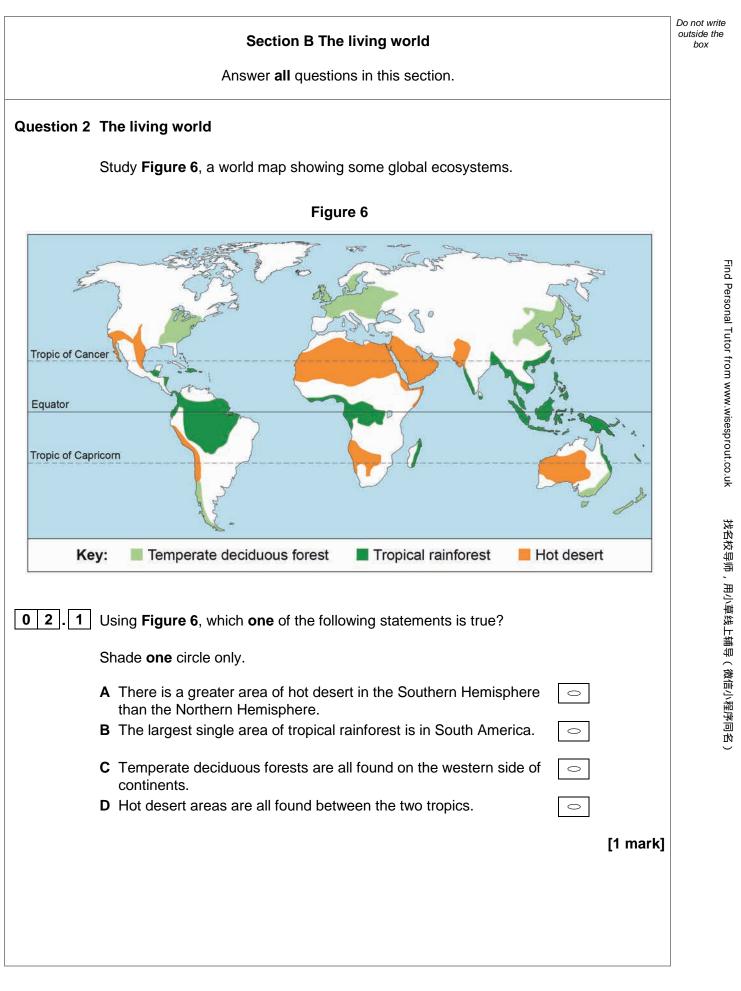
Use Figure 5 and an example you have studied.

[9 marks] [+ 3 SPaG marks]



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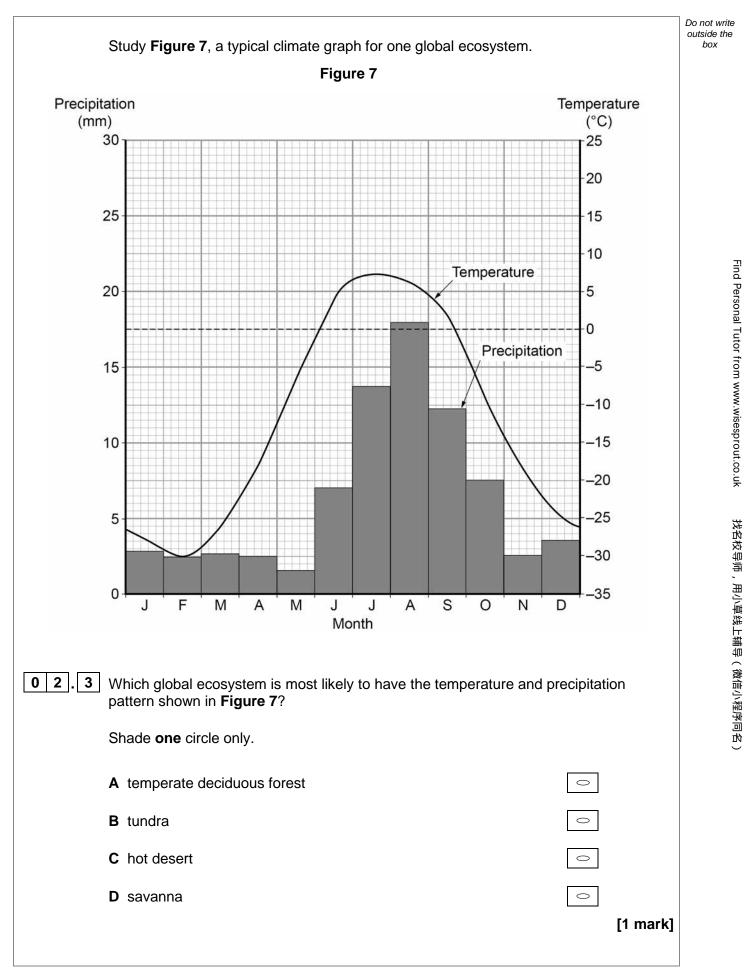






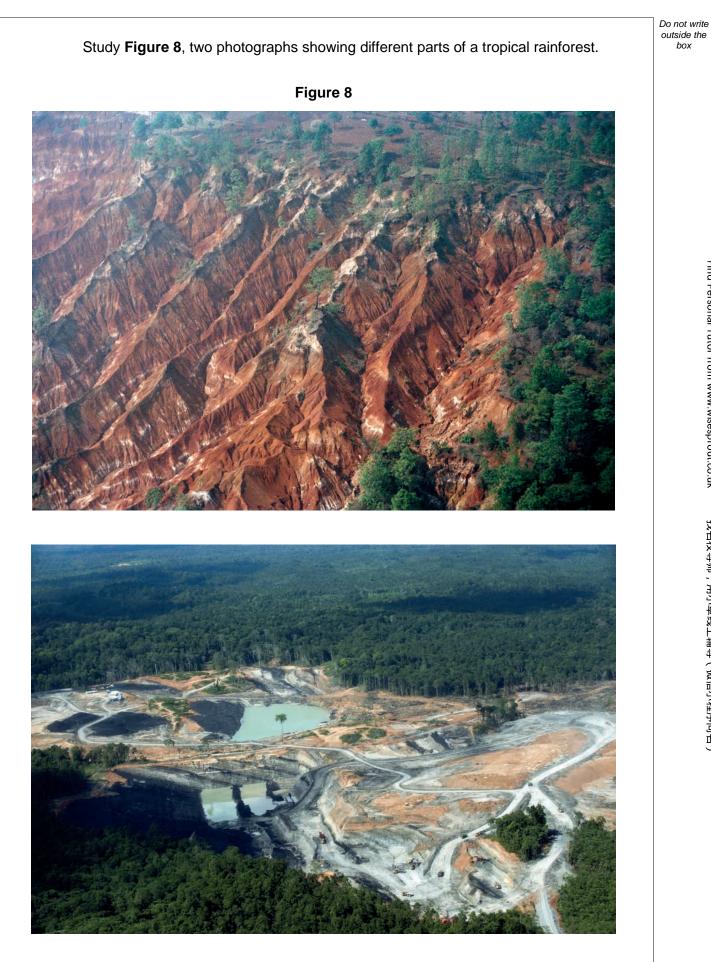
02.2	Outline one reason for the distribution of tropical rainforest.	[2 marks]	Do not write outside the box
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02.4	State the minimum temperature shown in Figure 7 .		Do not write outside the box
	Shade one circle only.		
	A –26°C	, ,	
	B –28°C	,	
	C –30°C	, ,	
	D -32°C		- п
02.5	Give one reason why polar regions have low temperatures throughout the	[1 mark] year. [1 mark]	Find Personal Tutor from www.wisesprout.co.uk
	Question 2 continues on the next page		ww.wisesprout.co.uk
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02.6	Using Figure 8 and your own understanding, explain how development in tropical rainforests creates economic advantages but at a cost to the environment.	Do not write outside the box
	[6 marks]	
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Study Figure 9, a photograph of part of an ecotourism scheme in the Amazon rainforest, Brazil. Figure 9

0 2 7 Using Figure 9, suggest how ecotourism can help in managing tropical rainforests sustainably. [2 marks] 0 2 . 8 Explain how either international hardwood agreements or selective logging can encourage the sustainable management of tropical rainforests. [2 marks]



02.9	Choose one of the following environments.	Do not write 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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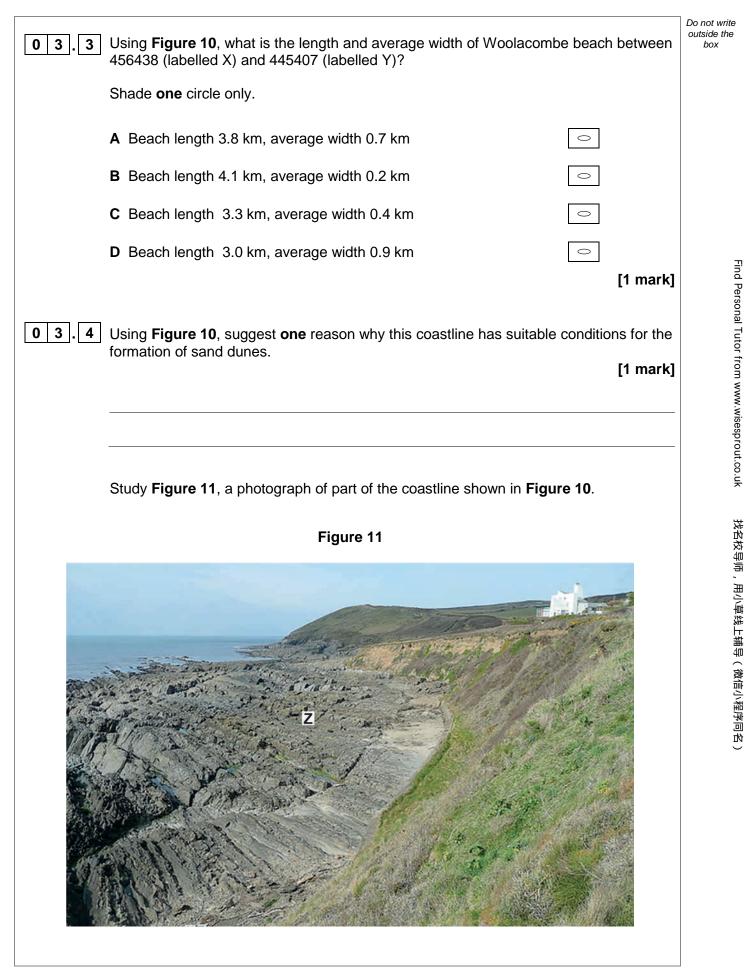
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	Section C Physical landscapes in the UK			Do not write outside the box
	Answer two questions from the following:			
	Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial).			
Question 3	Coastal landscapes in the UK			
	Study Figure 10 on the insert, a 1:50 000 Ordnance Survey map of th area in North Devon.	e Woola	acombe	
03.1	Using Figure 10 , give the four-figure grid reference for a headland wit Shade one circle only.	h cliffs.		
	A 4542	0		
	B 4643	0		
	C 4240	0		
	D 4441	0		
03.2	Using Figure 10 , which of the following coastal features is not shown 4339?	in grid s	[1 mark] square	Ĭ
	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		I
			[1 mark]	
	Question 3 continues on the next page			









0 3.5	Using Figure 11 , identify the landform marked Z.	[1 mark]	Do not writ outside the box
03.6	Explain how a coastline of headlands and bays forms and changes over time	[4 marks]	
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03.7	'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]	I
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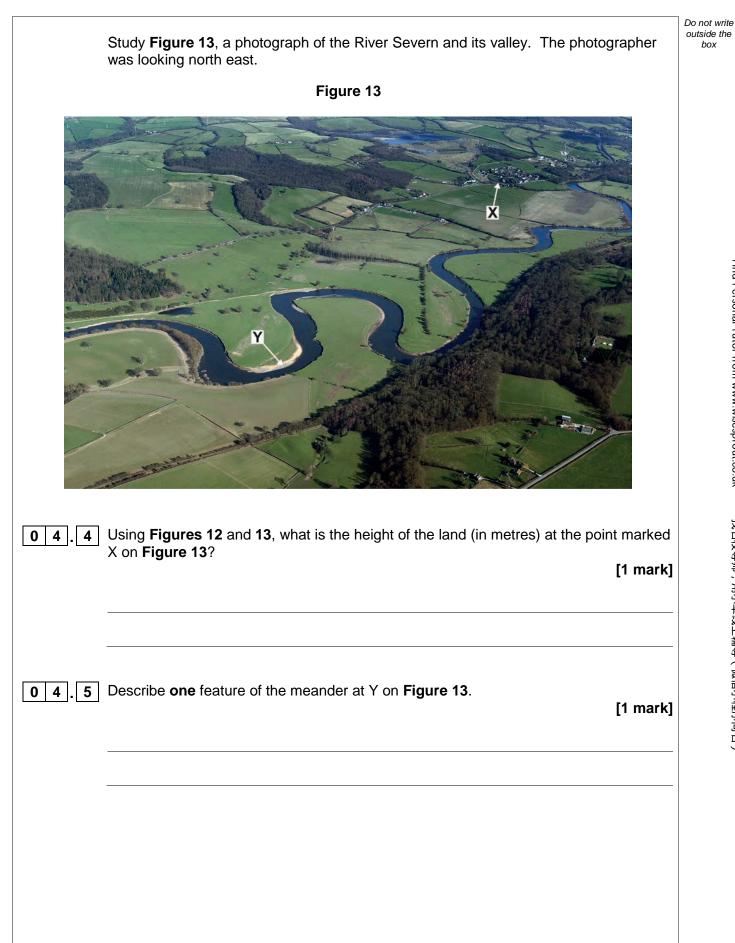
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	Do not write outside the
River landscapes in the UK	box
Study Figure 12 on the insert, a 1:50 000 Ordnance Survey map of the River Severn in Shropshire.	
Using Figure 12, give the four-figure grid reference for a river floodplain.	
Shade one circle only.	
A 6407	
B 6304	Find Pe
C 6205	ersonal T
D 6005	utor fr
[1 mark]	
Using Figure 12 , which of the following statements best describes the features of grid square 6205?	Find Personal Tutor from www.wisesprout.co.uk
Shade one circle only.	.co.uk
 A A steeply sloping wooded area rising to over 250 metres in the orth. B A gopthy cloping river valley with a small tributary entering from the orthogonal structure in the orthogon	找名核
north.	找名校导师,用小
C A south facing slope with a stream and small tributary flowing through woodland.	
D A wide flat river valley with a steeper slope in the north, rising from 50 to 80 metres.	线上辅
[1 mark]	草线上辅导(微信小程序同名)
Suggest one way the upper course of the River Severn may be different from that	小程序同
shown in Figure 12. [1 mark]	
Question 4 continues on the next page	
	Shropshire. Using Figure 12, give the four-figure grid reference for a river floodplain. Shade one circle only. A 6407 B 6304 C 6205 C 6205 D 6005 I I mark] 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 onorth. B A gently sloping river valley with a small tributary entering from the onorth. C A south facing slope with a stream and small tributary flowing through woodland. D A wide flat river valley with a steeper slope in the north, rising from one source of the River Severn may be different from that shown in Figure 12. I mark]



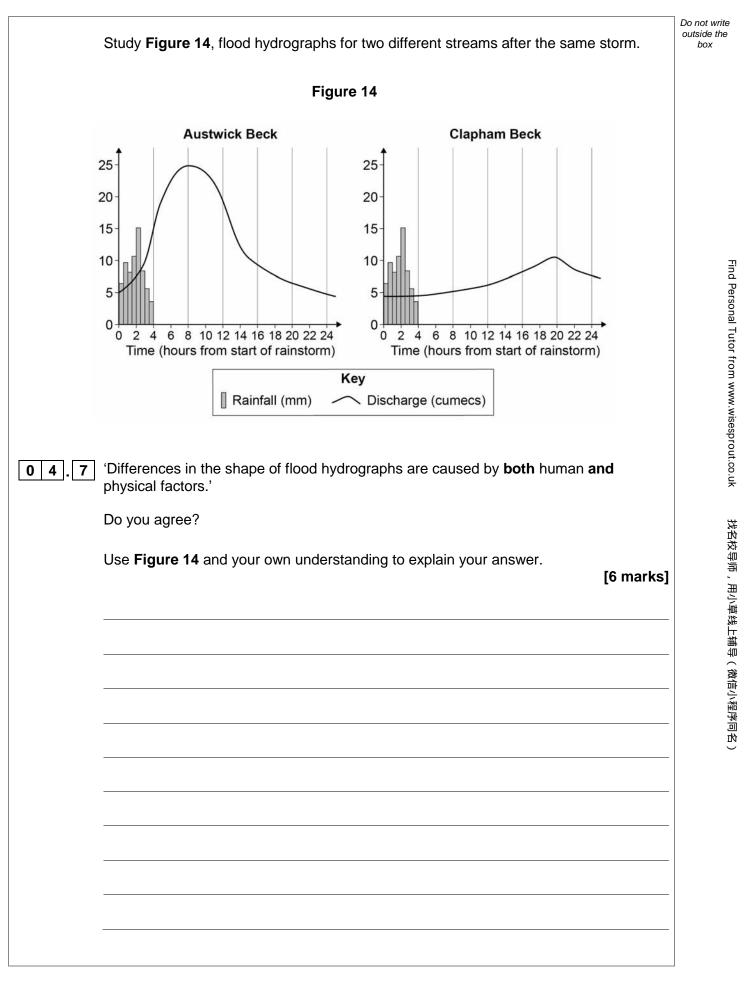
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0 4.6	Explain how river meanders may change over time.	[4 marks]	Do not write outside the box
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Question 5	Glacial landscapes in the UK	Do not write outside the box
	Study Figure 15 on the insert, 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.	ld Person
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	B 0299	rom w
	C 9900	Find Personal Tutor from www.wisesprout.co.uk
	D 9902	prout.c
	[1 mark]	o.uk
0 5.2	Locate Loch Avon centred in grid square 0102. What is the length (between points X and Y) and maximum depth of Loch Avon?	找名校导
	Shade one circle only.	·师 , 月 一
	A Length 2.5 km, maximum depth over 30 metres	找名校导师,用小草线上辅导(微信小程序同名)
	B Length 4.6 km, maximum depth 30 metres	中 へ 後
	C Length 2.1 km, maximum depth 40 metres	信小程序
	D Length 4.8 km, maximum depth over 40 metres	回 名)
	[1 mark]	
0 5.3	Suggest one reason for the shape of Loch Avon. [1 mark]	



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Study Figure 16, a photograph of Loch Etchachan, with Ben Macdui (989989) in the background.

	Figure 16	
	<image/>	
0 5.4	Using Figures 15 and 16 , in which direction was the photographe picture was taken? Shade one circle only.	er facing when the
	A South east	0
	B South west	0
	C North west	0
	D North east	<u> </u>
0 5.5	Describe one feature of the corrie at Z on Figure 16 .	[1 mark] [1 mark]
	Question 5 continues on the next page	
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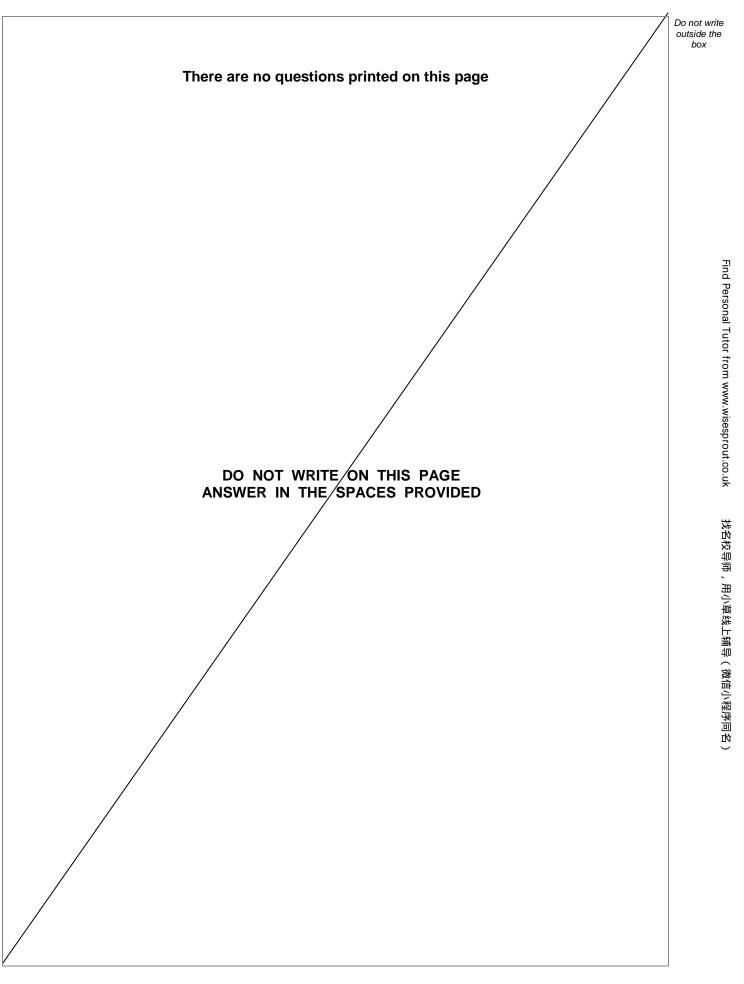


0 5.6	Explain how a corrie forms and changes over time.	[4 marks]	Do not write outside the box
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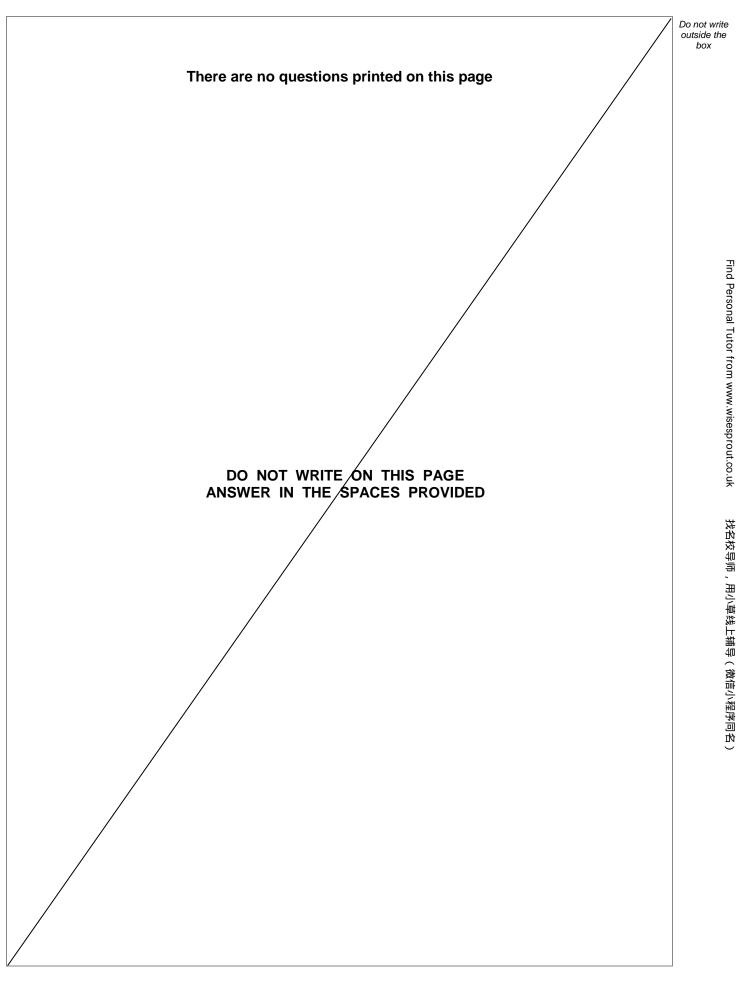


0 5.7	'The growing number of visitors to glaciated upland areas in the UK can only bring advantages.'	Do not w outside i box	the
	Do you agree?		
	Use an example to explain your answer. [6 marks]		
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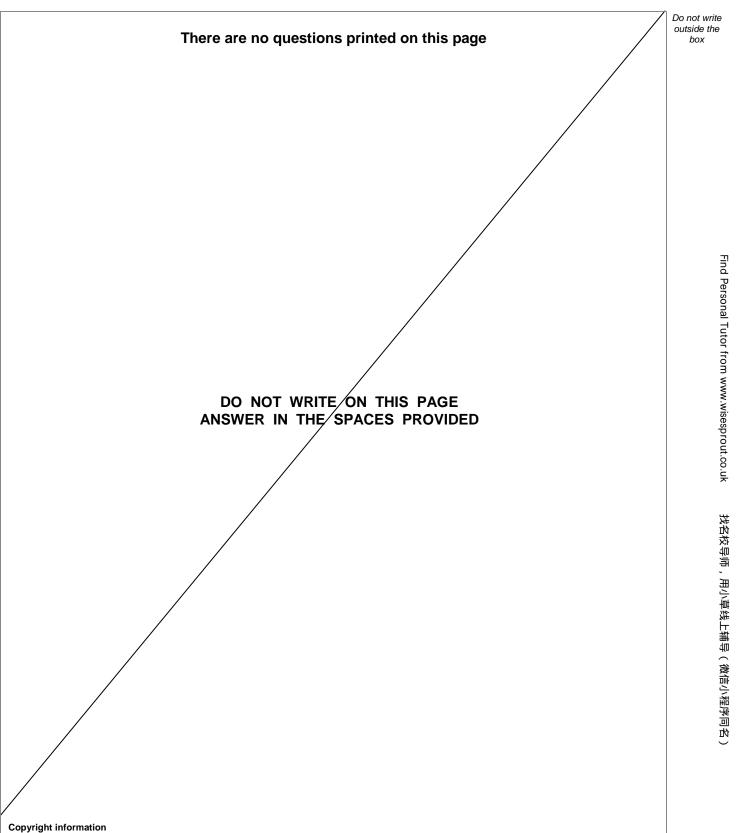












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