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Centre number	Candidate number
Surname	
Forename(s)	
Candidate signature	I declare this is my own work.

GCSE GEOGRAPHY

Paper 1 Living with the Physical Environment

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- 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 from:

Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial).

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
TOTAL	

- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need additional extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- 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 01.10.



There are no questions printed on this page DO NOT WRITE ON THIS PAGE ANSWER IN THE SPACES PROVIDED



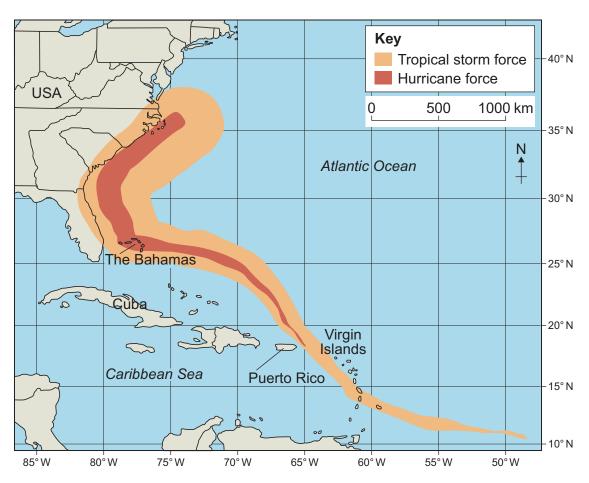
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_			
For the mu	ıltipl	e-choice questions, shade the circle next to the correct answer.	
CORRECT M	IETH	WRONG METHODS & • • • •	
If you want	to c	change your answer you must cross out your original answer as shown.	
If you wish select as sl		eturn to an answer previously crossed out, ring the answer you now wish t	to
		Section A The challenge of natural hazards	
		Answer all questions in this section.	
Question 1	Th	e challenge of natural hazards	
0 1.1	Wł	hich one of the following events is not an example of a natural hazard?	
	Sh	nade one circle only.	[1 mark]
	Α	Tsunami	[mank]
	В	Earthquake	
	С	Volcanic eruption	
	D	Oil spill	
		Question 1 continues on the next page	



Study **Figure 1**, a map showing the track of Hurricane Dorian in August and September 2019.

Figure 1



Using Figure 1, which one of the following statements is true?Shade one circle only.

[1 mark]

- A Hurricane Dorian started south of the Equator.
- B Hurricane Dorian passed to the west of Cuba.
- C Hurricane Dorian passed close to the east coast of the USA.
- **D** Hurricane Dorian reached 40° north.

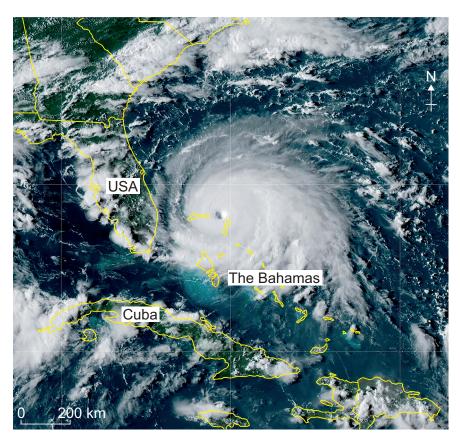


0 1.3	Using Figure 1 , measure the distance travelled by Hurricane Dorian at hurricane force.	
	[2 marks]	i
	km	
	Question 1 continues on the next page	



Study **Figure 2**, a satellite image showing Hurricane Dorian over The Bahamas on 1 September 2019.

Figure 2

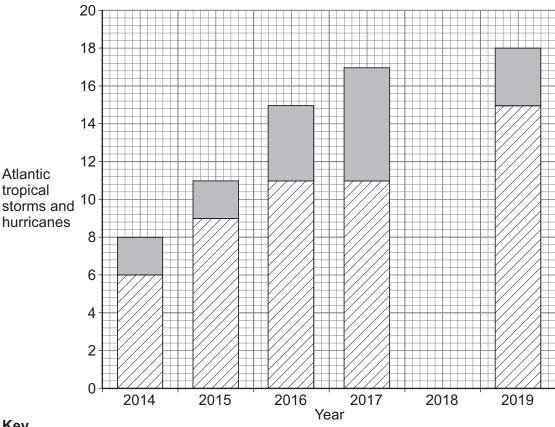


0 1.4	Using Figure 2, identify two features of Hurricane Dorian.	[2 marks]
	1	
	2	



Study Figure 3, a divided bar graph showing the total number of Atlantic tropical storms and hurricanes between 2014-2019.

Figure 3



Key

- Hurricanes scale 3 and above
- Tropical storms and hurricanes scale 1–2
- Use the data from the following table to complete **Figure 3**.

[2 marks]

Year	Number of tropical storms and hurricanes scale 1–2	Number of hurricanes scale 3 and above
2018	13	2

0 1 . Suggest one reason for the increase in the total number of tropical storms and hurricanes shown in Figure 3.

[1 mark]



0 1.7	Outline one way that planning can i	reduce the impact of tropical storms.	[2 marks]
	Study Figure 4 , photographs showi the UK.	ng some of the impacts of extreme wea	ather in
	Figu	ire 4	
rainfall ir	ummer temperatures and lower some areas have increased the oorland fires.	Higher rainfall and more storm events increased the risk of flooding.	have
0 1.8	'UK weather is becoming more extr	eme.'	
	Do you agree?		
	Use Figure 4 and your own unders	tanding.	[6 marks]



Question 1 continues on the next page	



0 1.9	Explain why earthquakes and volcanic eruptions take place along destructive plate margins.
	[4 marks]
	Extra space
	·
0 1.1	To what extent do the effects of a tectonic hazard vary between areas of contrasting wealth?
	Use one or more named examples in your answer.
	[9 marks] [+ 3 SPaG marks]



Extra space		

33

End of Section A

Turn over for Section B



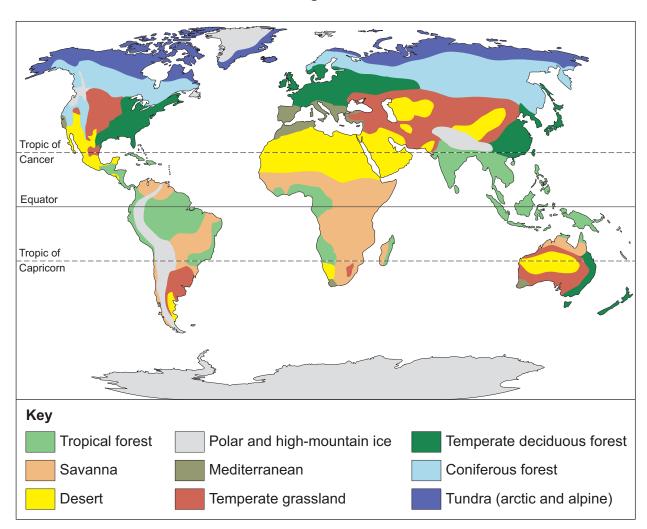
Section B The living world

Answer all questions in this section.

Question 2 The living world

Study **Figure 5**, a map showing the major world ecosystems.

Figure 5





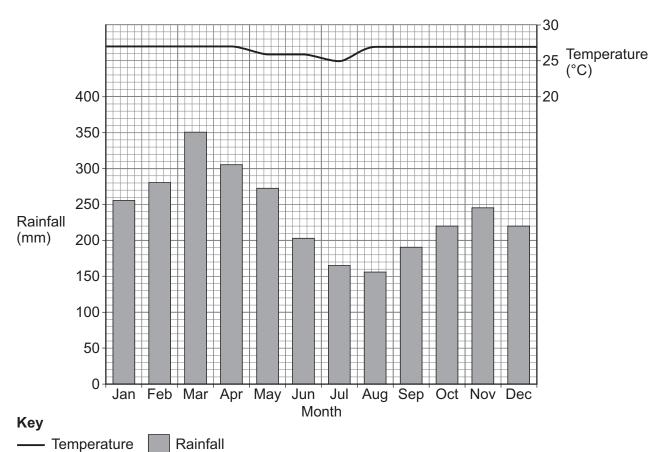
0 2 . 1	Us	ing Figure 5, which one of the following statements is true?	
	Sh	ade one circle only.	mark]
	Α	There are temperate grasslands in every continent.	
	В	Deserts are only found in the middle of continents.	0
	С	Temperate deciduous forests are only found in the Northern hemisphere.	0
	D	Coniferous forests occur in large areas of North America, Europe and Asia.	
0 2 2	Us	ing Figure 5 , name the continent with the largest area of savanna. [1	mark]
0 2 . 3		nich statement describes the characteristics of temperate deciduous forests?	•
			mark]
	Α	The vegetation is short because the growing season only lasts two months.	0
	В	The trees drop their dead leaves because of lower temperatures in winter.	
	С	The vegetation is sparse because rainfall is low.	0
	D	The vegetation is evergreen because the climate is hot all year round.	0
		Question 2 continues on the next page	



Study **Figure 6**, information about the climate and vegetation of tropical rainforests.

Figure 6

Climate graph for Iquitos, Peru

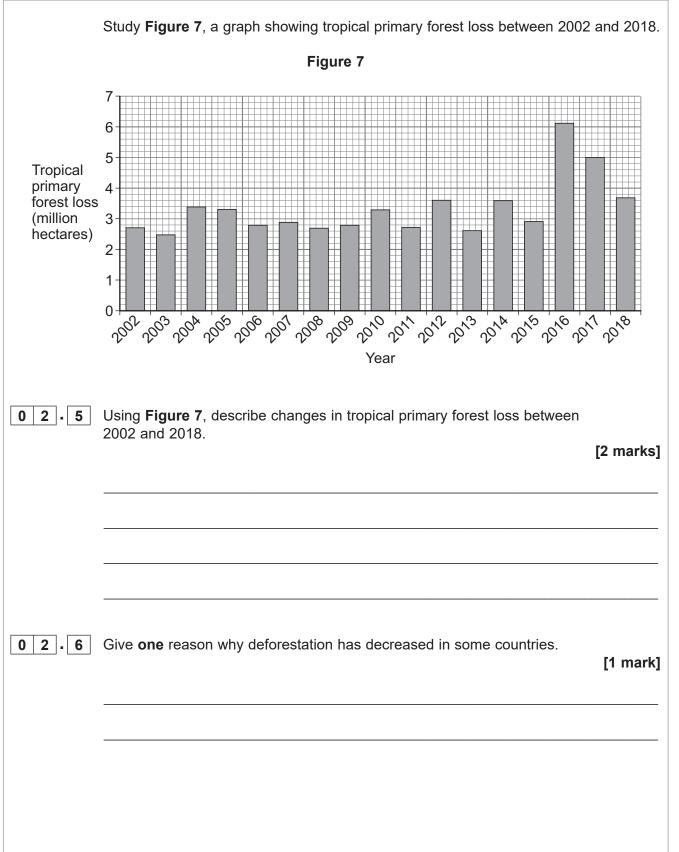






0 2 . 4	Suggest how plants are adapted to the climate in tropical rainforests.	
	Use Figure 6 and your own understanding.	[6 marks]
		[o marks]
	Extra space	
	Question 2 continues on the next page	







Study **Figure 8**, a photograph showing an area of deforestation in Sumatra, Indonesia.

Figure 8



0 2 . 7	Using Figure 8 , outline one environmental effect of deforestation. [2 marks]
0 2 . 8	Explain how ecotourism can be a sustainable management strategy in tropical rainforests.
	[2 marks]



Study either Figure 9 or Figure 10.

Figure 9 – Hot desert environment

A hot desert landscape







Figure 10 – Cold environment

A tundra and mountain landscape

Oil drilling in Alaska





0 2 . 9	Discuss the challenges and opportunities hot desert environment or a cold environ	•	
	Use either Figure 9 or Figure 10 and a	case study.	
	Tick the box to show which environment	you have chosen.	
	Hot desert environment (Figure 9)		
	Cold environment (Figure 10)		[9 marks]



25

End of Section B

Turn over for Section C



Section C Physical landscapes in the UK

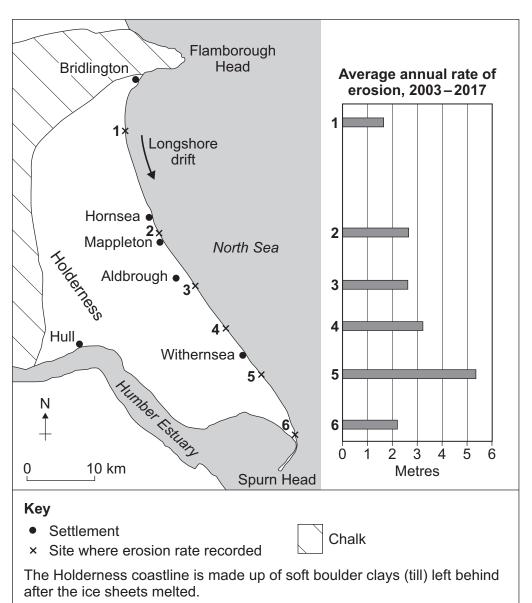
Answer two questions from the following:

Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial).

Question 3 Coastal landscapes in the UK

Study **Figure 11**, a map showing the changing coastline of the Holderness area, Yorkshire.

Figure 11





0 3 . 1	Using Figure 11 , what is the mode of annual rate of erosion along the Holderness coastline?			
	Sh	ade one circle only.	[1 m	nark]
	A	1.0-1.9 metres per year		
	В	2.0-2.9 metres per year	0	
	С	3.0-3.9 metres per year	0	
	D	4 metres and above per year		
0 3.2	Us	ing Figure 11 , describe how the ra	te of erosion changes from north to south. [1 m	nark]
0 3.3			andform that has formed at Spurn Head?	
	Sn	ade one circle only.	[1 m	nark]
	Α	Bar		
	В	Stack		
	С	Spit	0	
	D	Cliff		
0 3.4	Us	ing Figure 11 , suggest why there i	s a headland at Flamborough Head. [1 m	nark]
		Question 3 continues	on the next page	



Study Figure 12, a photograph showing cliffs at Aldbrough on the Holderness coast.

Figure 12



0 3 . 5	Using Figure 12 , give one reason why the rate of erosion of the Holderness cois high.	oast
	3	l mark

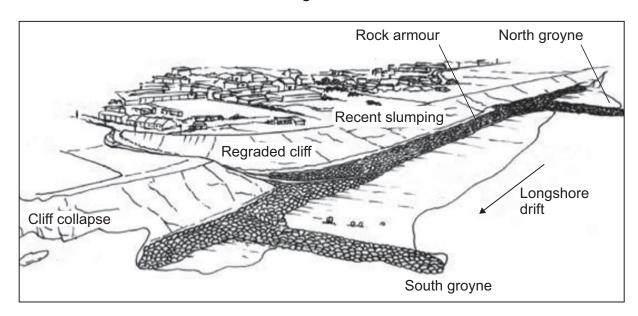


0 3 . 6	Explain how a wave cut platform is formed as a cliff is eroded.	
	Use one or more diagrams to support your answer.	[/ marke]
		[4 marks]
	Question 3 continues on the next page	



Study **Figure 13**, a diagram showing some coastal processes and coastal management strategies.

Figure 13



0 3 - 7	Assess the effectiveness of strategies used to protect coastlines against erosion.
	Use Figure 13 and your own understanding. [6 marks]



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		15

End of Question 3



Question 4 River landscapes in the UK

Study Figure 14, a table of information about a river in north east England.

Figure 14

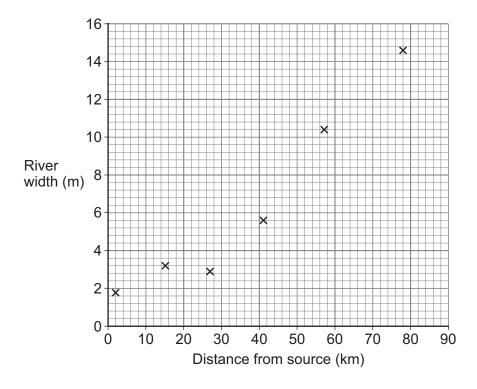
Site	1	2	3	4	5	6	7
Distance from source (km)	2	15	27	41	57	66	78
Width of river (m)	1.9	3.2	2.9	5.6	10.4	9.0	14.6
Median size of sediment (cm)	43	18	19	15	9	2	1

0 4 . 1 Plot the width of the river at Site 6 on to the graph below.

Use the following data.

Distance from source (km)	Width of river (m)
66	9.0

[1 mark]



0 4 2 Using **Figure 14**, describe the change in river width downstream from the source. [1 mark]

0 4.3	Give one reason why the median size of sediment tends to decrease downs from the source of the river.	stream [1 mark]
		[1 mark]
		_
	Question 4 continues on the next page	



Study Figure 15, a photograph taken in the upper course of the river and its valley.

Figure 15



0 4 - 4	lden	tify the landform shown in Figure	15.	
	Sha	de one circle only.		[1 mark]
	A I	nterlocking spurs	0	
	В	Flood plain		
	C	Gorge		
	D l	_evée		
0 4.5	Usin	g Figure 15 , describe the shape	of the valley sides.	[1 mark]



0 4 . 6	Explain how a meander may be formed by both erosion and deposition.	
	Use one or more diagrams to support your answer.	[4 marks]
		[+ marko]
	Question 4 continues on the next page	



Study **Figure 16**, different opinions expressed about hard engineering and soft engineering.

Figure 16

"I live in a house that is near to the river on a floodplain.

I think that the government should pay for hard engineering projects such as dams and flood walls."

Local resident

"Soft engineering is the way forward.

Strategies such as planting trees and river restoration are kinder to the environment and cost less money, whilst reducing the risk of flooding."

Environment Officer

0 4 . 7	Assess the benefits of using hard engineering and soft engineering to reduce the of river flooding.	risk
	Use Figure 16 and your own understanding. [6 ma	rks]



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End of Question 4



Question 5 Glacial landscapes in the UK

Study **Figure 17**, a map showing the depth and extent of ice during the last ice age in Europe.

Figure 17

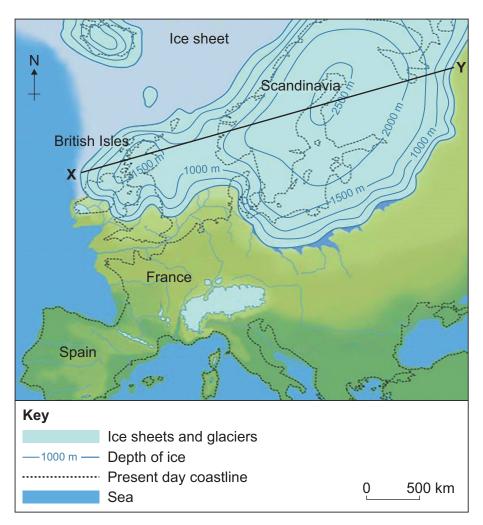
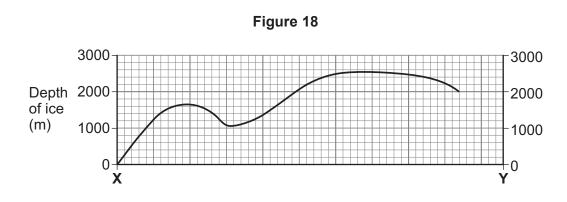


Figure 18 is a partly completed cross section of ice depth between **X** and **Y** shown on **Figure 17**.





0 5.1		ing Figure 17 , complete Figure 18 , a cross section showing the depth of tween X and Y .	ice
	DE	tween X and 1.	[1 mark]
0 5.2		ing Figure 17 , compare the maximum depth of ice over the British Isles waximum depth of ice over Scandinavia.	with the
0 5.3	Us	ing Figure 17 , which one of the following statements is true?	
	Sh	ade one circle only.	[1 mark]
	A	Ice covered the whole of the British Isles during the last ice age.	
	В	The main ice sheet was centred in southern Europe.	
	С	The ice sheet extended westwards from Scandinavia to the British Isles.	
	D	The shape of the coastline during the ice age was the same as the present day.	0
		Question 5 continues on the next page	



Study **Figure 19**, a photograph showing a retreating glacier.

Figure 19



0 5 . 4	Identify the feature shown at X .	
	Shade one circle only.	[1 mark]
	A Moraine	
	B Drumlin	
	C Truncated spur	
	D Arête	
0 5.5	Suggest one reason why the material and shape.	deposited by a glacier is mixed in size [1 mark]

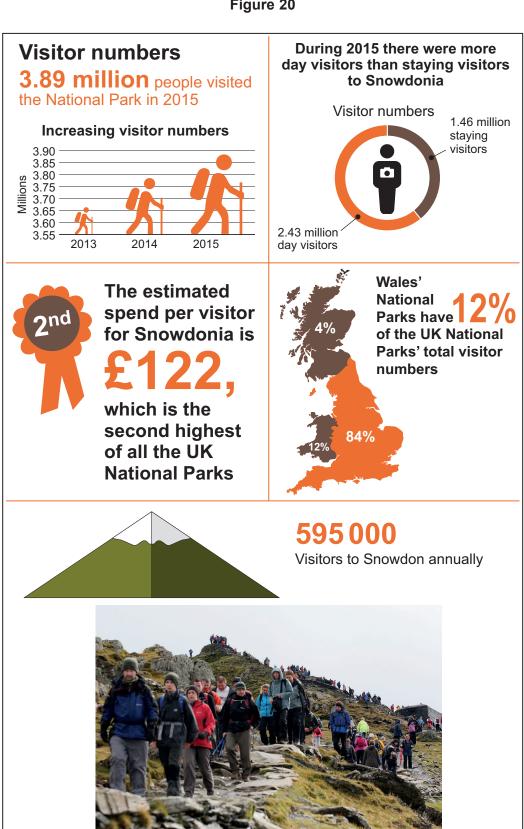


0 5 . 6	Explain the formation of a glacial trough (U-shaped valley).	
	Use one or more diagrams to support your answer.	[4 marks]
		[4 marks]
	Question 5 continues on the next page	



Study Figure 20, information about tourism in Snowdonia National Park, a glaciated area in the UK.

Figure 20



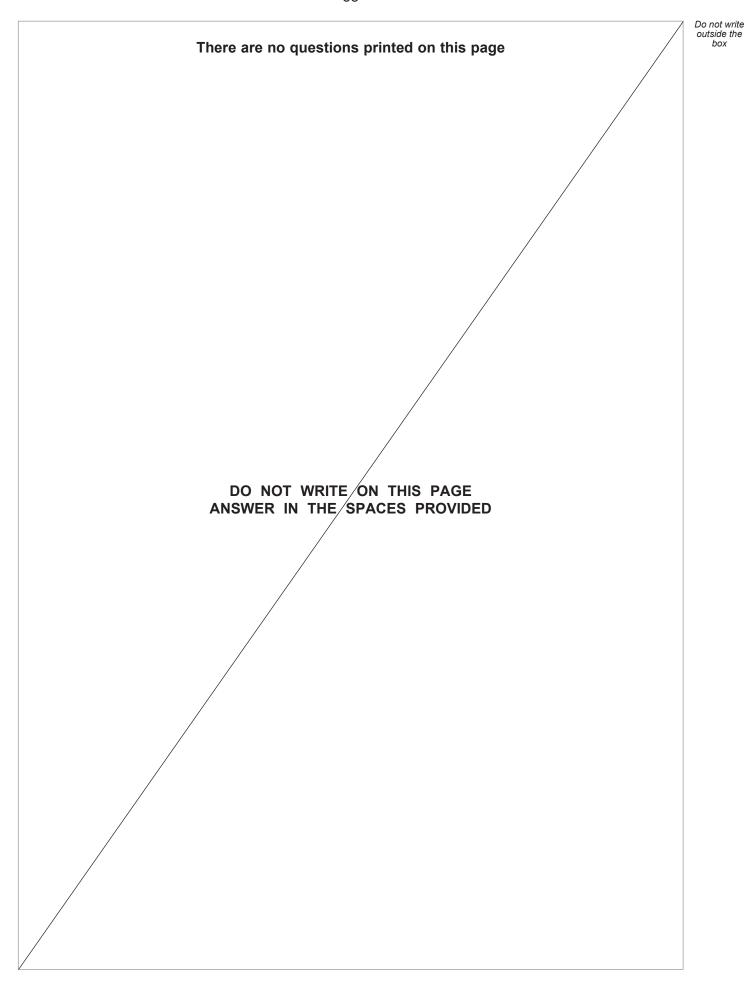


0 5 . 7	Assess the economic and environmental impacts of tourism in a glaciated upland area of the UK.	k
	Use Figure 20 and your own understanding. [6 mag	arks]
	Extra space	

END OF QUESTIONS



15





Question number	Additional page, if required. Write the question numbers in the left-hand margin.



Question number	Additional page, if required. Write the question numbers in the left-hand margin.
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