## 

Please write clearly	in block capitals.
Centre number	Candidate number
Surname	
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Candidate signature	I declare this is my own work.

## A-level GEOGRAPHY

Paper 1 Physical Geography

Wednesday 20 May 2020	Afternoon	Time allowed: 2 ho	ours 30 minutes
<b>Materials</b> For this paper you must have:			For Examiner's Use

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 all questions in Section A.
- Answer either Question 2 or Question 3 or Question 4 in Section B.
- Answer either Question 5 or Question 6 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 120.



G/KL/Jun20/E4

7037/1



	Section A
	Water and carbon cycles
	Answer <b>all</b> questions in this section.
0 1 1	Outline the process of decomposition in the carbon cycle. [4 marks]
	Extra space



		Do not write outside the
	Figure 1 is in the insert.	box
	<b>Figure 1</b> shows annual and 5-year moving average rainfall data for two measuring stations in South Africa: Royal Observatory and Dwarsberg.	
0 1 2	Analyse the data shown in <b>Figure 1</b> .	
	[6 marks]	
	Extra space	
	Question 1 continues on the next page	



0 1.3	Figure 2 is in the insert. It shows the number of days when precipitation is high enough for plant growth across southern Africa in 2000 and that projected for 2050. Using Figure 2 and your own knowledge, assess the predicted impact of climate change upon life in this region. [6 marks]	Do not write outside the box
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01.4	Assess the impact of farming practices on the carbon budget.	[20 marks]	Do not write outside the box



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36

End of Section A

Turn over for Section B



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	Section B	
	Answer <b>one</b> question in this section.	
	Answer <b>either</b> Question 2 <b>or</b> Question 3 <b>or</b> Question 4.	
Question 2	Hot desert systems and landscapes	
02.1	Outline the role of cold ocean currents as a cause of aridity.	[4 marks]
	Extra space	



	Figure 3 is in the insert.
	<b>Figure 3</b> shows desertification risk levels by landscape type in an area of Tunisia, north Africa.
02.2	Analyse the relationship between landscape type and risk of desertification shown in <b>Figure 3</b> .
	[6 marks]
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	Question 2 continues on the next page







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Question 2 continues on the next page	
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02.4	'Desertification trends are entirely a product of human-induced climate change as opposed to naturally occurring phenomena.'	DUX
	To what extent do you agree with this view? [20 marks]	



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G/Jun20/7037/1

36

End of Question 2



Question 3	Coastal systems and landscapes	Do not write outside the box			
0 3 1	landscapes.				
	[4 marks]				
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	Question 3 continues on the next page				



G/Jun20/7037/1

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	Figure 5 is in the insert.	box
	<b>Figure 5</b> shows the isostatic adjustment in 2010 (green arrows) for selected recording stations in Greenland. Information on the 2010 melting day anomaly is also shown.	
03.2	Analyse the relationship between isostatic adjustment and the 2010 melting day anomaly in Greenland as shown in <b>Figure 5</b> .	
	[6 marks]	
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3.4	With reference to a coastal environment at a local scale, assess the predicted im of climate change upon the landscape. [20 ma	
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End of Question 3



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Question 4	Glacial systems and landscapes	bc
0 4 1	Outline the geomorphological process of nivation.	
	[4 marks]	
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	Figure 7 is in the insert.
	Figure 7 shows the mean mass balance and cumulative mass balance for selected glaciers around the world.
04.2	Analyse the data shown in Figure 7.
	[6 marks]
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0 4 4	With reference to a glaciated landscape beyond the UK, assess the role of management in shaping alternative possible futures.	
	[20 ma	rks]



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36

End of Question 4

End of Section B



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	Section C	DOX
	Answer <b>one</b> question in this section.	
	Answer <b>either</b> Question 5 <b>or</b> Question 6.	
		-
Question 5	Hazards	
0 5 1	Outline the process of liquefaction. [4 marks]	
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	Question E continues on the next next	
	Question 5 continues on the next page	
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	Figures 9a and 9b are in the insert.
	<b>Figure 9a</b> shows the number of global reported disasters between 1990 and 2017. It also shows the economic costs associated with the reported disasters.
	Figure 9b shows information about the global reported disasters for 2017 as shown in Figure 9a.
0 5 2	Analyse the data shown in <b>Figure 9a</b> and <b>Figure 9b</b> . [6 marks]
	Extra space



	Figures 10a, 10b and 10c are in the insert.
	Figure 10a shows the track of Hurricane Michael, and data related to the intensity and timescale of the event.
	<b>Figure 10b</b> shows the track of Hurricane Michael between 9–12 October and the rainfall associated with the event.
	Figure 10c shows the aftermath of the event at Mexico Beach in Florida, USA.
0 5 3	Using <b>Figures 10a</b> , <b>10b</b> , <b>10c</b> and your own knowledge, assess the potential issues associated with managing this event.
	[9 marks]



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0 5 4	'Seismic activity offshore will always present a greater threat to people than seismic activity on land.' To what extent do you agree with this view? [9 marks]



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0 5 . 5	How far do you agree that storms and wildfires are increasing in frequency and
	intensity, presenting an increasing threat to people?
	Interfact to people :
	[20 marks]







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48

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Question 6	Ecosystems under stress	outside the box
0 6 1	Outline the process of succession in a lithosere.	
	[4 marks]	
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	Figures 11a and 11b are in the insert.
	Figure 11a shows the global human footprint in 2009.
	Figure 11b shows the change in the global human footprint between 1993 and 2009.
06.2	Analyse the data shown in <b>Figure 11a</b> and <b>Figure 11b</b> .
	[6 marks]
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	Question 6 continues on the next page

	Figures 12a, 12b and 12c are in the insert.
	Figure 12a shows coral bleaching in the Great Barrier Reef (GBR), Australia, in 2016.
	Figure 12b shows estimated change in sea water pH caused by human-created $CO_2$ between the 1700s and the 1990s.
	<b>Figure 12c</b> shows the sea surface temperature anomaly for the Coral Sea, Australia, between 1900 and 2016.
06.3	Using <b>Figures 12a</b> , <b>12b</b> , <b>12c</b> and your own knowledge, assess the scale of the threat facing this coral reef.
	[9 marks]



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0 6 4	Assess the impact of declining biodiversity upon a major terrestrial biome that you
	have studied. [9 marks]



	Extra space
0 6 - 5	With reference to a region experiencing ecological change, assess the role of human
	activity in securing a sustainable future.
	[20 marks]









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END OF QUESTIONS



48







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G/Jun20/7037/1