

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

A-level GEOGRAPHY

Paper 1 Physical Geography

Wednesday 20 May 2020

Afternoon

Time allowed: 2 hours 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 **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.

For Examiner's Use	
Section	Mark
A	
B	
C	
TOTAL	



J U N 2 0 7 0 3 7 1 0 1

G/KL/Jun20/E4

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Section A**Water and carbon cycles**

Answer **all** questions in this section.

0 1 . 1

Outline the process of decomposition in the carbon cycle.

[4 marks]

Extra space _____



Figure 1 shows annual and 5-year moving average rainfall data for two measuring stations in South Africa: Royal Observatory and Dwarsberg.

[6 marks]

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Turn over ►



0	1	.	3
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[6 marks]

[illegible]



[20 marks]

[illegible]

[illegible][illegible]

36

End of Section A
Turn over for Section B

Turn over ►

Section B

Answer **one** question in this section.

Answer **either** Question 2 **or** Question 3 **or** Question 4.

Question 2 Hot desert systems and landscapes

0	2	.	1
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Outline the role of cold ocean currents as a cause of aridity.

[4 marks]

Extra space _____



Figure 3 shows desertification risk levels by landscape type in an area of Tunisia, north Africa.

Analyse the relationship between landscape type and risk of desertification shown in **Figure 3**.

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Extra space _____

Question 2 continues on the next page

Turn over ►



'Desertification trends are entirely a product of human-induced climate change as opposed to naturally occurring phenomena.'

[20 marks]

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[illegible]

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36

End of Question 2



Question 3 Coastal systems and landscapes**0 3 . 1**

Outline the process of sub-aerial weathering in the development of coastal landscapes.

[4 marks]

Extra space

Question 3 continues on the next page

Turn over ►

Figure 5 shows the isostatic adjustment in 2010 (green arrows) for selected recording stations in Greenland. Information on the 2010 melting day anomaly is also shown.

Analyse the relationship between isostatic adjustment and the 2010 melting day anomaly in Greenland as shown in **Figure 5**.

[illegible]

Extra space _____



Figure 6 is a photograph of a coastal feature, taken in Malta in 2017.

Figure 6



0 3 . 3

Using **Figure 6** and your own knowledge, assess the view that rock type is the most important factor in the development of this landscape.

[6 marks]

Turn over ►



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Extra space



With reference to a coastal environment at a local scale, assess the predicted impact of climate change upon the landscape.

[illegible]

[illegible]

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36

End of Question 3

Turn over ►



Question 4 Glacial systems and landscapes

0	4	.	1
---	---	---	---

 Outline the geomorphological process of nivation.**[4 marks]**

Extra space



Figure 7 shows the mean mass balance and cumulative mass balance for selected glaciers around the world.

Analyse the data shown in **Figure 7**.

[6 marks]

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Question 4 continues on the next page

Turn over ►



Figure 8 shows an area of tundra vegetation in the Sajama National Park, Bolivia.

Figure 8



0 4 . 3

Using **Figure 8** and your own knowledge, assess the view that temperature variation is the most significant factor in the development of this vegetation.

[6 marks]



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Question 4 continues on the next page

Turn over ►



With reference to a glaciated landscape beyond the UK, assess the role of management in shaping alternative possible futures.

[illegible]

[illegible]

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36

End of Question 4
End of Section B



Section C

Answer **one** question in this section.

Answer **either** Question 5 **or** Question 6.

Question 5 Hazards

0 5 . 1 Outline the process of liquefaction.

[4 marks]

Extra space

Question 5 continues on the next page

Turn over ►



Figure 9a shows the number of global reported disasters between 1990 and 2017. It also shows the economic costs associated with the reported disasters.

0	5	.	2
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[6 marks]

[illegible]



Figure 10a shows the track of Hurricane Michael, and data related to the intensity and timescale of the event.

Figure 10c shows the aftermath of the event at Mexico Beach in Florida, USA.

Using **Figures 10a, 10b, 10c** and your own knowledge, assess the potential issues associated with managing this event.

[illegible]

Extra space _____

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]



Extra space

0 5 . 5

How far do you agree that storms and wildfires are increasing in frequency and intensity, presenting an increasing threat to people?

[20 marks]

Turn over ►



[illegible]

Extra space _____

48

Question 6 Ecosystems under stress

0	6
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1

 Outline the process of succession in a lithosere.**[4 marks]**

Extra space



Figure 11a shows the global human footprint in 2009.

0	6	.	2
---	---	---	---

[6 marks]

[illegible]

Extra space _____

Turn over ►



Figure 12a shows coral bleaching in the Great Barrier Reef (GBR), Australia, in 2016.

Figure 12c shows the sea surface temperature anomaly for the Coral Sea, Australia, between 1900 and 2016.

Using **Figures 12a, 12b, 12c** and your own knowledge, assess the scale of the threat facing this coral reef.

[illegible]

Extra space _____

0 6 . 4

Assess the impact of declining biodiversity upon a major terrestrial biome that you have studied.

[9 marks]

Turn over ►



Extra space

06.5

With reference to a region experiencing ecological change, assess the role of human activity in securing a sustainable future.

[20 marks]



[illegible]

Extra space

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