



Surname \_\_\_\_\_

Other Names \_\_\_\_\_

Centre Number \_\_\_\_\_

For Examiner's Use

Candidate Number \_\_\_\_\_

Candidate Signature \_\_\_\_\_

I declare this is my own work.

# A-level GEOGRAPHY

## 7037/1

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.

At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.

[Turn over]



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

**BLANK PAGE**



## INSTRUCTIONS

- Use black ink or black ball-point pen.
- 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 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.

**DO NOT TURN OVER UNTIL TOLD TO DO SO**



**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]

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**[Turn over]**



**FIGURE 1, on pages 2 and 3 of the insert, 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 FIGURE 1.  
[6 marks]**

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**[Turn over]**

**FIGURE 2**, on pages 4 and 5 of the insert, shows the number of days when precipitation is high enough for plant growth across southern Africa in 2000 and that projected for 2050.

**0 1 . 3**

**Using FIGURE 2 and your own knowledge, assess the predicted impact of climate change upon life in this region. [6 marks]**

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**0 1 . 4**

**Assess the impact of farming practices on the carbon budget. [20 marks]**

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**[End of Section A]**

**[Turn over for Section B]**







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**[Turn over]**



**FIGURE 3, on pages 6 and 7 of the insert, shows desertification risk levels by landscape type in an area of Tunisia, north Africa.**

**0 2 . 2** Analyse the relationship between landscape type and risk of desertification shown in **FIGURE 3. [6 marks]**

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[Turn over]



**FIGURE 4, on page 8 of the insert, shows a landscape near to Naein, central Iran.**

**0 2 . 3**

**Using FIGURE 4 and your own knowledge, assess the view that low precipitation is the most important factor leading to the development of this landscape. [6 marks]**

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[Turn over]

0 2 . 4

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

**To what extent do you agree with this view?  
[20 marks]**

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**[End of Question 2]**

**[Turn over]**



**QUESTION 3 Coastal systems and landscapes**

**03 . 1**

**Outline the process of sub-aerial weathering in the development of coastal landscapes.  
[4 marks]**

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[Turn over]













03 . 4

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

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**[End of Question 3]**

**[Turn over]**



**QUESTION 4 Glacial systems and landscapes**

**04** . **1** **Outline the geomorphological process of nivation. [4 marks]**

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**BLANK PAGE**

**[Turn over]**



**FIGURE 7, on pages 14 and 15 of the insert, shows the mean mass balance and cumulative mass balance for selected glaciers around the world.**

**0 4 . 2**

**Analyse the data shown in FIGURE 7.  
[6 marks]**

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[Turn over]



0 4 . 4

**With reference to a glaciated landscape beyond the UK, assess the role of management in shaping alternative possible futures. [20 marks]**

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**[End of Question 4]**

**[Turn over]**



**SECTION C**

**Answer ONE question in this section.**

**Answer EITHER Question 5 OR Question 6.**

**QUESTION 5 Hazards**

**05 . 1 Outline the process of liquefaction.  
[4 marks]**

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**[Turn over]**



**FIGURES 9a and 9b are in the insert.**

**FIGURE 9a, on pages 18 and 19 of the insert, shows the number of global reported disasters between 1990 and 2017.**

**It also shows the economic costs associated with the reported disasters.**

**FIGURE 9b, on pages 20 and 21 of the insert, shows information about the global reported disasters for 2017 as shown in FIGURE 9a.**

**0 5 . 2**

**Analyse the data shown in FIGURE 9a and FIGURE 9b. [6 marks]**

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**FIGURES 10a, 10b and 10c are in the insert.**

**FIGURE 10a, on page 22 of the insert, shows the track of Hurricane Michael, and data related to the intensity and timescale of the event.**

**FIGURE 10b, on page 23 of the insert, shows the track of Hurricane Michael between 9–12 October and the rainfall associated with the event.**

**FIGURE 10c, on page 24 of the insert, shows the aftermath of the event at Mexico Beach in Florida, USA.**

**0 5 . 3**

**Using FIGURES 10a, 10b, 10c and your own knowledge, assess the potential issues associated with managing this event.  
[9 marks]**

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05 . 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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05 . 5

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

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**[End of Question 5]**





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**FIGURES 11a and 11b are in the insert.**

**FIGURE 11a, on page 26 of the insert, shows the global human footprint in 2009.**

**FIGURE 11b, on page 27 of the insert, shows the change in the global human footprint between 1993 and 2009.**

**0 6 . 2**

**Analyse the data shown in FIGURE 11a and FIGURE 11b. [6 marks]**

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**FIGURES 12a, 12b and 12c are in the insert.**

**FIGURE 12a, on pages 28 and 29 of the insert, shows coral bleaching in the Great Barrier Reef (GBR), Australia, in 2016.**

**FIGURE 12b, on page 30 of the insert, shows estimated change in sea water pH caused by human-created CO<sub>2</sub> between the 1700s and the 1990s.**

**FIGURE 12c, on page 31 of the insert, shows the sea surface temperature anomaly for the Coral Sea, Australia, between 1900 and 2016.**

**0 6 . 3**

**Using FIGURES 12a, 12b, 12c 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]**

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**END OF QUESTIONS**

For Examiner's Use	
Section	Mark
A	
B	
C	
<b>TOTAL</b>	

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**G/KL/Jun20/7037/1/E3**

