



Surname _____

Forename(s) _____

Centre Number _____

Candidate Number _____

Candidate Signature _____

I declare this is my own work.

A-level

GEOGRAPHY

Paper 1 Physical Geography

7037/1

Thursday 16 May 2024 Morning

Time allowed: 2 hours 30 minutes

At the top of the page, write your surname and forename(s), your centre number, your candidate number and add your signature.

[Turn over]



J U N 2 4 7 0 3 7 1 0 1

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.
- 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.
- If you need 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 120.

DO NOT TURN OVER UNTIL TOLD TO DO SO



[Turn over]



36

[End of Section A]

[Turn over for Section B]



[Turn over]



FIGURE 3a, on pages 6 and 9 of the insert, shows the average rainfall and current extent of the Sahara Desert and other vegetation types in central and north Africa.

FIGURE 3b, on pages 7 and 9 of the insert, shows the average rainfall and vegetation types in central and north Africa around 6000–10 000 years ago.

0 2 . 2

Using FIGURE 3a and FIGURE 3b, interpret the change in rainfall and vegetation patterns in central and north Africa. [6 marks]



FIGURE 4, on pages 10 and 11 of the insert, shows some of the factors causing desertification in selected locations.

0 2 . 3

Using FIGURE 4 and your own knowledge, assess the potential impact of desertification. [6 marks]

0 2 . 4

With reference to ONE OR MORE hot deserts that you have studied, assess potential impacts of climate change on the development of landforms. [20 marks]

36

[End of Question 2]

[Turn over]



[Turn over]



FIGURE 6, on pages 16, 17 and 18 of the insert, shows some challenges facing West Africa’s coastal resources.

0 3 . 3

**Using FIGURE 6 and your own knowledge, assess potential approaches to managing this coastal region.
[6 marks]**



[Turn over]



0 3 . 4

**With reference to ONE OR MORE coastal environments that you have studied, assess the potential impact of climate change on the development of landforms.
[20 marks]**



36

[End of Question 3]

[Turn over]



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[Turn over]



[Turn over]



0 4 . 4

**With reference to ONE OR MORE cold environments that you have studied, assess the potential impact of climate change on the development of landforms.
[20 marks]**



36

[End of Question 4]

[End of Section B]

[Turn over for Section C]



SECTION C

Answer ONE question in this section.

Answer EITHER Question 5 OR Question 6.

QUESTION 5 Hazards

0 5 . 1

Outline processes involved in the formation of ocean ridges. [4 marks]

[Turn over]



FIGURE 9, on page 24 of the insert, shows data related to the changing frequency of tropical storms between 1980 and 2018.

0 5 . 2

Interpret the data shown in FIGURE 9. [6 marks]



FIGURE 10, on pages 26 and 27 of the insert, shows data related to the Hunga Tonga–Hunga Ha’apai submarine volcanic eruption and tsunami on 14 January 2022.

0 5 . 3

Using FIGURE 10 and your own knowledge, assess challenges in responding to this event. [9 marks]



0 5 . 4

To what extent do you agree that changes to the carbon cycle are responsible for increasingly frequent and severe tropical storms? [9 marks]



[Turn over]



0 6 . 4

How far do you agree that changes to the carbon cycle are leading to an increasingly uncertain future for coral reefs? [9 marks]



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For Examiner's Use	
Section	Mark
A	
B	
C	
TOTAL	

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