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Other Names _____

Centre Number _____

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Candidate Number _____

Candidate Signature _____

**GCSE
GEOGRAPHY**

8035/1

**Paper 1 Living with the
Physical Environment**

Tuesday 22 May 2018 Afternoon

Time allowed: 1 hour 30 minutes

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 1 8 8 0 3 5 1 0 1

For this paper you must have:

- **the insert (enclosed)**
- **the OS map legend (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 AND Section B.**
- **Answer TWO questions 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 maximum mark for this paper is 88.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Question

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TO DO SO**



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For the multiple-choice questions, completely fill in the circle alongside the appropriate answer.

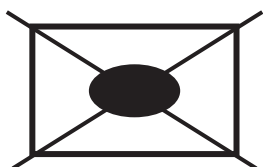
CORRECT METHOD



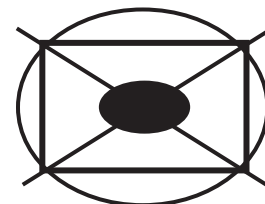
WRONG METHODS



If you want to change your answer you must cross out your original answer as shown.



If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown.



[Turn over]



SECTION A The challenge of natural hazards

Answer ALL questions in this section.

QUESTION 1 – The challenge of natural hazards

Study FIGURE 1 on page 2 of the insert, a world map showing plate margins and active volcanoes.



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Using FIGURE 1, which ONE of the following statements is true?

Shade ONE circle only. [1 mark]

- A All active volcanoes occur in lines along plate margins.
- B There are more active volcanoes along constructive margins than destructive margins.
- C There are many active volcanoes around the edge of the Pacific Ocean.
- D Active volcanoes are found along the eastern side of North and South America.

[Turn over]



0 1 . 2

Describe the movement of plates along plate margin X. [1 mark]



Study FIGURE 2 on pages 4 and 5 of the insert, a map of Iceland showing the tectonic plates. The area is labelled Y on FIGURE 1.

0 1 . 3

Using FIGURE 2, how long will it take for the plates to move 100 metres?

Shade ONE circle only. [1 mark]

- A 80 years**
- B 250 years**
- C 1200 years**
- D 4000 years**

[Turn over]



0 1 . 4

Using FIGURE 2 and your own understanding, suggest how plate movements cause tectonic hazards in Iceland. [6 marks]

Blank lined writing area with 18 horizontal lines.

[Turn over]





Study FIGURE 3 on page 6 of the insert, a graph showing variation in average global temperatures, 1880–2017.

0 1 . 5

Using FIGURE 3, which ONE of the following statements is true?

Shade ONE circle only. [1 mark]

- A In the early 1940s global temperatures were below the 20th century average.**
- B Global temperatures showed a steady increase between 1940 and 1980.**
- C The 15 hottest years were all recorded between 1995 and 2017.**
- D Global temperatures have been above the 20th century average every year since 1960.**



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Give ONE natural cause of changes in global temperatures. [1 mark]

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**Give TWO pieces of evidence, other than the change in global temperature, that show climate change has taken place.
[2 marks]**

1 _____

2 _____

[Turn over]



0 1 . 8

Explain how the increasing use of fossil fuels and changes in agriculture may have contributed to global changes in temperature. [4 marks]



[Turn over]



Study FIGURE 4 on pages 8 and 9 of the insert, a map showing the track of Hurricane Irma in September 2017.

0 1 . 9

Using FIGURE 4, describe the track of Hurricane Irma between 6 September 2017 and 12 September 2017. [2 marks]

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Using FIGURE 4, what happened to the wind speed of Hurricane Irma between 8 and 12 September 2017? [1 mark]

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Give ONE reason why the wind speed of a tropical storm (hurricane) may change as it reaches land. [1 mark]

[Turn over]



Study FIGURE 5 on pages 10 and 11 of the insert, a news report and photograph showing the effects of Hurricane Irma on the Dutch island of Sint Maarten.

0 1 . 1 2

Assess the extent to which tropical storms have effects on people and the environment.

Use FIGURE 5 and an example you have studied. [9 marks] [+ 3 SPaG marks]

[Turn over]





SECTION B The living world

Answer ALL questions in this section.

QUESTION 2 – The living world

Study FIGURE 6 on page 12 of the insert, a world map showing some global ecosystems.



02 . 1

Using FIGURE 6, which ONE of the following statements is true?

Shade ONE circle only. [1 mark]

- A There is a greater area of hot desert in the Southern Hemisphere than the Northern Hemisphere.
- B The largest single area of tropical rainforest is in South America.
- C Temperate deciduous forests are all found on the western side of continents.
- D Hot desert areas are all found between the two tropics.

[Turn over]



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Outline ONE reason for the distribution of tropical rainforest. [2 marks]



Study FIGURE 7 on page 13 of the insert, a typical climate graph for one global ecosystem.

0 2 . 3

Which global ecosystem is most likely to have the temperature and precipitation pattern shown in FIGURE 7?

Shade ONE circle only. [1 mark]

A temperate deciduous forest

B tundra

C hot desert

D savanna

[Turn over]



0 2 . 4

State the minimum temperature shown in FIGURE 7.

Shade ONE circle only. [1 mark]

A $-26\text{ }^{\circ}\text{C}$

B $-28\text{ }^{\circ}\text{C}$

C $-30\text{ }^{\circ}\text{C}$

D $-32\text{ }^{\circ}\text{C}$

0 2 . 5

Give ONE reason why polar regions have low temperatures throughout the year.
[1 mark]



Study FIGURE 8 on pages 14 and 15 of the insert, two photographs showing different parts of a tropical rainforest.

0 2 . 6

Using FIGURE 8 and your own understanding, explain how development in tropical rainforests creates economic advantages but at a cost to the environment. [6 marks]

[Turn over]



[Turn over]



Study FIGURE 9 on page 16 of the insert, a photograph of part of an ecotourism scheme in the Amazon rainforest, Brazil.

0 2 . 7

Using FIGURE 9, suggest how ecotourism can help in managing tropical rainforests sustainably. [2 marks]

0 2 . 8

**Explain how EITHER international hardwood agreements OR selective logging can encourage the sustainable management of tropical rainforests.
[2 marks]**

[Turn over]



0 2 . 9

Choose ONE of the following environments.

Hot desert environment

Cold environment

TICK the box to show which environment you have chosen.

**Using a case study, to what extent have opportunities for economic activity been developed in your chosen environment?
[9 marks]**



[Turn over]





[Turn over]





[End of Section B]



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[Turn over]



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 10 on pages 18 and 19 of
the insert, an Ordnance Survey map of the
Woolacombe area in North Devon.**

0 3 . 1

**Using FIGURE 10 give the four-figure grid
reference for a headland with cliffs.**

Shade ONE circle only. [1 mark]

A 4542

B 4643

C 4240

D 4441



03 . 2

Using FIGURE 10, which of the following coastal features is NOT shown in grid square 4339?

Shade ONE circle only. [1 mark]

A An area of sand dunes

B A rocky wave cut platform

C A wide sandy beach

D A coastal spit

[Turn over]



0 3 . 3

Using FIGURE 10, what is the length and average width of Woolacombe beach between 456438 (labelled X) and 445407 (labelled Y)?

Shade ONE circle only. [1 mark]

**A Beach length 3.8 km,
average width 0.7 km**

**B Beach length 4.1 km,
average width 0.2 km**

**C Beach length 3.3 km,
average width 0.4 km**

**D Beach length 3.0 km,
average width 0.9 km**



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Using FIGURE 10, suggest ONE reason why this coastline has suitable conditions for the formation of sand dunes. [1 mark]

[Turn over]



Study FIGURE 11 on page 21 of the insert, a photograph of part of the coastline shown in FIGURE 10.

0 3 . 5

Using FIGURE 11, identify the landform marked Z. [1 mark]

0 3 . 6

Explain how a coastline of headlands and bays forms and changes over time. [4 marks]



Turn over]



15

[End of Question 3]



QUESTION 4 – River landscapes in the UK

Study FIGURE 12 on pages 22 and 23 of the insert, an Ordnance Survey map of the River Severn in Shropshire.

0 4 . 1

Using FIGURE 12, give the four-figure grid reference for a river floodplain.

Shade ONE circle only. [1 mark]

A 6407

B 6304

C 6205

D 6005

[Turn over]



04 . 2

Using FIGURE 12, which of the following statements best describes the features of grid square 6205?

Shade ONE circle only. [1 mark]

- A A steeply sloping wooded area rising to over 250 metres in the north.**
- B A gently sloping river valley with a small tributary entering from the north.**
- C A south facing slope with a stream and small tributary flowing through woodland.**
- D A wide flat river valley with a steeper slope in the north, rising from 50 to 80 metres.**



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Suggest ONE way the upper course of the River Severn may be different from that shown in FIGURE 12. [1 mark]

[Turn over]



Study FIGURE 13 on page 24 of the insert, a photograph of the River Severn and its valley. The photographer was looking north east.

0 4 . 4

Using FIGURES 12 and 13, what is the height of the land (in metres) at the point marked X on FIGURE 13? [1 mark]

0 4 . 5

Describe ONE feature of the meander at Y on FIGURE 13. [1 mark]



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Explain how river meanders may change over time. [4 marks]



[Turn over]



Study FIGURE 14 on pages 26 and 27 of the insert, flood hydrographs for two different streams after the same storm.

0 4 . 7

‘Differences in the shape of flood hydrographs are caused by BOTH human and physical factors.’

Do you agree?

**Use FIGURE 14 and your own understanding to explain your answer.
[6 marks]**

[End of Question 4]



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[Turn over]



QUESTION 5 – Glacial landscapes in the UK

Study **FIGURE 15** on pages 28 and 29 of the insert, an Ordnance Survey map of part of the Cairngorm Mountains in Scotland.

0 5 . 1

Using **FIGURE 15**, which grid square matches the following description?

‘There is a valley with a stream in the north. The land rises steeply southwards. It becomes more gentle towards the summit in the south, reaching a height of almost 1000 metres.’

Shade **ONE** circle only. [1 mark]

A 0201

B 0299

C 9900

D 9902



05 . 2

Locate Loch Avon centred in grid square 0102. What is the length (between points X and Y) and maximum depth of Loch Avon?

Shade ONE circle only. [1 mark]

- A Length 2.5 km, maximum depth over 30 metres**
- B Length 4.6 km, maximum depth 30 metres**
- C Length 2.1 km, maximum depth 40 metres**
- D Length 4.8 km, maximum depth over 40 metres**

[Turn over]



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Suggest ONE reason for the shape of Loch Avon. [1 mark]



Study FIGURE 16 on page 30 of the insert, a photograph of Loch Etchachan, with Ben Macdui (989989) in the background.

0 5 . 4

Using FIGURES 15 and 16, in which direction was the photographer facing when the picture was taken?

Shade ONE circle only. [1 mark]

A South east

B South west

C North west

D North east

[Turn over]



05 . 5

Describe ONE feature of the corrie at Z on FIGURE 16. [1 mark]

05 . 6

Explain how a corrie forms and changes over time. [4 marks]



0 5 . 7

‘The growing number of visitors to glaciated upland areas in the UK can only bring advantages.’

Do you agree?

**Use an example to explain your answer.
[6 marks]**

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END OF QUESTIONS

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| Question | Mark |
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