



**Surname** \_\_\_\_\_

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

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

For Examiner's Use

**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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1	2
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**DO NOT TURN OVER UNTIL TOLD  
TO DO SO**

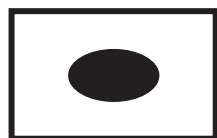


**BLANK PAGE**



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

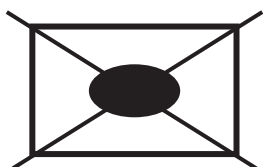
**CORRECT METHOD**



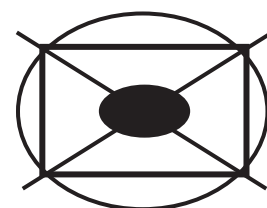
**WRONG METHODS**



**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]**



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

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**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]**



01 . 4

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

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**[Turn over]**



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**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** \_\_\_\_\_

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**[Turn over]**



01 . 8

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

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[Turn over]



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

**01 . 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]**

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**[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.**

**01 . 12**

**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]**

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**[Turn over]**



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## **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.**





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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]



02 . 2

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

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**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]**



**02 . 4**

**State the minimum temperature shown in FIGURE 7.**

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

☐ **A     $-26^{\circ}\text{C}$**

☐ **B     $-28^{\circ}\text{C}$**

☐ **C     $-30^{\circ}\text{C}$**

☐ **D     $-32^{\circ}\text{C}$**

**02 . 5**

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

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**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]**

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**[Turn over]**



30

[illegible]

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[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]**

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

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**[Turn over]**



**02 . 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]**

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**[Turn over]**



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[illegible]

**[Turn over]**



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[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]**



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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]**

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**[Turn over]**

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

**03 . 5**

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

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**03 . 6**

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

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**[Turn over]**



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**‘Coastal management schemes are effective in protecting the coastline from physical processes.’**

**Do you agree?**

**Using an example, explain your answer.  
[6 marks]**

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[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]**



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**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.**



0	4	.	3
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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]**

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**[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]**

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**0 4 . 5**

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

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**[Turn over]**



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

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[Turn over]



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

**04 . 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]**

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**[Turn over]**



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[End of Question 4]



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## 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]**



05 . 3

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

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**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]**



0	5	.	5
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**Describe ONE feature of the corrie at Z on FIGURE 16. [1 mark]**

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

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**[Turn over]**



05 . 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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15

END OF QUESTIONS

For Examiner's Use	
Question	Mark
1	
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TOTAL	

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