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GCSE GEOGRAPHY

8035/1

Paper 1 Living with the Physical Environment

Tuesday 22 May 2018 Afternoon

Time allowed: 1 hour 30 minutes

For this paper you must have:

- the insert (enclosed)
- the OS map legend
- 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]



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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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DO NOT TURN OVER UNTIL TOLD TO DO SO



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

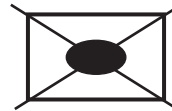
CORRECT METHOD



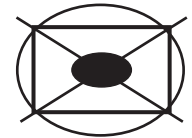
WRONG METHODS



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.

0 1 . 1 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.



0 1 . **2** Describe the movement of plates along plate margin X. [1 mark]

Study FIGURE 2 on page 3 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]



Study FIGURE 3 on page 4 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.

0 1 . **6** Give ONE natural cause of changes in global temperatures. [1 mark]



0 1 . 7

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]



Study FIGURE 4 on page 6 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]

[Turn over]



0 1 . 1 0

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

0 1 . 1 1

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

Study FIGURE 5 on page 7 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]



[End of Section A]

[Turn over]



SECTION B The living world

Answer ALL questions in this section.

QUESTION 2 – The living world

Study FIGURE 6 on page 8 of the insert, a world map showing some global ecosystems.

0 2 . **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.



0 2 . 2 Outline ONE reason for the distribution of tropical rainforest. [2 marks]

Study FIGURE 7 on page 9 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 °C

B -28 °C

C -30 °C

D -32 °C

0 2 . **5** Give **ONE** reason why polar regions have low temperatures throughout the year. [1 mark]



Study FIGURE 9 on page 12 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]

[Turn over]



0 2 . 8

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

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]



25

[End of Section B]

[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

03 . 1 Using **FIGURE 10** on page 14 of the insert, 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



0 3 . 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]



03 . 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

03 . 4

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



Study FIGURE 11 on page 15 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 page 16 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.

04 . 3

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



Study FIGURE 13 on page 17 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]

[Turn over]



QUESTION 5 – Glacial landscapes in the UK

Study **FIGURE 15** on page 20 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

[Turn over]



0 5 . 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

0 5 . 3

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



Study **FIGURE 16** on page 21 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

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

[Turn over]



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Question	Mark
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