



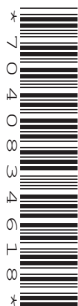
Oxford Cambridge and RSA

GCSE (9–1) Geography B (Geography for Enquiring Minds)

J384/01 Our Natural World

Tuesday 22 May 2018 – Afternoon

Time allowed: 1 hour 15 minutes



You must have:

- the Resource Booklet (inserted)

You may use:

- a scientific or graphical calculator
- a ruler (cm/mm)



First name

Last name

Centre
number

Candidate
number

INSTRUCTIONS

- The separate Resource Booklet will be found inside this document.
- Use black ink. You may use an HB pencil for graphs and diagrams.
- Complete the boxes above with your name, centre number and candidate number.
- Answer **all** the questions.
- Write your answer to each question in the space provided. If additional space is required, use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.

INFORMATION

- The total mark for this paper is **70**.
- The marks for each question are shown in brackets [].
- Quality of extended responses will be assessed in questions marked with an asterisk (*).
- Spelling, punctuation and grammar and the use of specialist terminology (SPaG) will be assessed in questions marked with a pencil (✎).
- This document consists of **16** pages.

2
SECTION A

Answer **all** the questions.

Global Hazards

- 1** **(a)** Define the term extreme weather.

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..... **[1]**

- (b)** Study **Fig. 1** in the separate Resource Booklet, maps showing atmospheric and ocean circulation in the Pacific during a normal year and an El Niño year.

Using **Fig. 1**, suggest how South America may be affected during an El Niño year.

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..... **[3]**

- (c) Study the table below showing the frequency of some hazard events between 1980 and 2015.

Year	Number of events per year		
	Earthquakes	Tropical Storms	Floods
1980	25	41	38
1985	21	55	52
1990	30	70	70
1995	26	69	78
2000	37	72	160
2005	40	130	182
2010	50	81	185
2015	33	90	152

Select the most suitable graphical technique for presenting the number of flood events column.

- A** Bar graph
- B** Climate graph
- C** Line graph
- D** Pie chart

Write the correct letter in the box.

[1]

[8]

- A** Global warming.
- B** Large-scale, long-term changes in average temperatures and weather patterns.
- C** The difference in temperature and weather during different seasons.
- D** The short-term warming of the Earth.

1

[1]

-
- The graph displays the temperature change from the present (1950) over the last 400,000 years. The y-axis represents the temperature change in degrees Celsius, ranging from -10°C to 4°C. The x-axis represents the year before present, with the present (1950) marked as year 0. The temperature has fluctuated significantly, with a major peak around 325,000 years ago and a sharp drop around 125,000 years ago.

..... [4]

[4]

..... [2]

[6]

Distinctive Landscapes

- 3 (a) Study **Fig. 3** in the separate Resource Booklet, a relief map of the UK.

What type of map is this?

- A Choropleth
- B Flow line
- C Isoline
- D Thematic

Write the correct letter in the box.

[1]

- (b) Using **Fig. 3**, suggest which type of natural landscape is likely to be found at X.

..... [1]

- (c) Using **Fig. 3**, describe the distribution of upland areas in the UK.

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..... [3]

Rose chart

Pie chart

Bar graph

Line graph

[2]

Discuss the influence of geology in the formation of river landforms within your chosen river basin.

Name of chosen river basin in the UK:

[6]

[6]

Sustaining Ecosystems

4 (a) Select the correct definition of an ecosystem.

- A A type of tourism that protects the environment.
- B The interconnectedness of environments.
- C The interdependence of plants and animals with the environment they live in.
- D The place where animals and plants live.

Write the correct letter in the box.

[1]

(b) Name **two** features of Arctic flora.

1

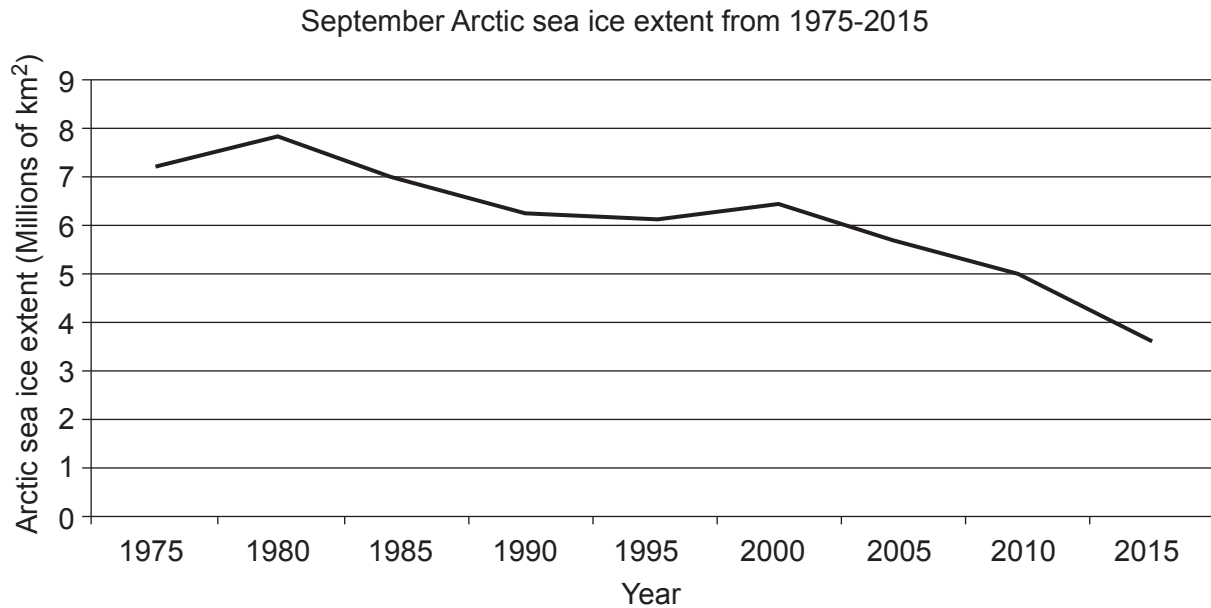
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[2]

- (c) The graph and table below show the average September Arctic sea ice extent between 1975 and 2015.



Year	1975	1980	1985	1990	1995	2000	2005	2010	2015
Arctic sea ice extent (1 000 000sq km)	7.2	7.8	6.9	6.2	6.1	6.4	5.6	4.9	3.6

Which of these statements describing the trend shown on this graph is true?

- A** The sea ice extent in 1975 and 1985 was the same.
- B** The sea ice has decreased most rapidly between 1985 and 2000.
- C** The sea ice has decreased most rapidly between 2000 and 2015.
- D** The sea ice has rapidly increased from 2000 to 2015.

Write the correct letter in the box.

[1]

(d) Why are tropical rainforest soils considered to be amongst the poorest in the world?

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..... [3]

(e) **Case study – Sustainable management of an area of tropical rainforest.**

Evaluate the effectiveness of **one** way in which an area of tropical rainforest you have studied is being sustainably managed.

Name of tropical rainforest area studied:

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..... [6]

Physical Geography Fieldwork

- | Groyne Number | Drop North side (cm) | Drop South side (cm) | Difference |
|---------------|----------------------|----------------------|------------|
| 1 | 27 | 41 | 14 |
| 2 | 31 | 51 | 20 |
| 3 | 28 | 44 | 16 |
| 4 | 25 | 39 | 14 |
| 5 | 32 | 54 | 22 |

..... [4]

- [2]

(c) State **one** way you could adapt **Fig. 4** to make it more informative.

.....

..... [1]

(d)* You will have carried out some physical geography fieldwork as part of your GCSE Geography course.

Name the fieldwork

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To what extent was your primary data collection successful?

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..... [8]



Spelling, punctuation and grammar and the use of specialist terminology [3]

END OF QUESTION PAPER

This image shows a blank sheet of white paper designed for handwriting practice. It features a series of horizontal dashed lines spaced evenly down the page. A single vertical solid line runs along the left side, creating a narrow margin. The rest of the page is open space between the dashed lines, intended for writing practice.

Oxford Cambridge and RSA

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