



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.

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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.

	Number of events per year		
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]

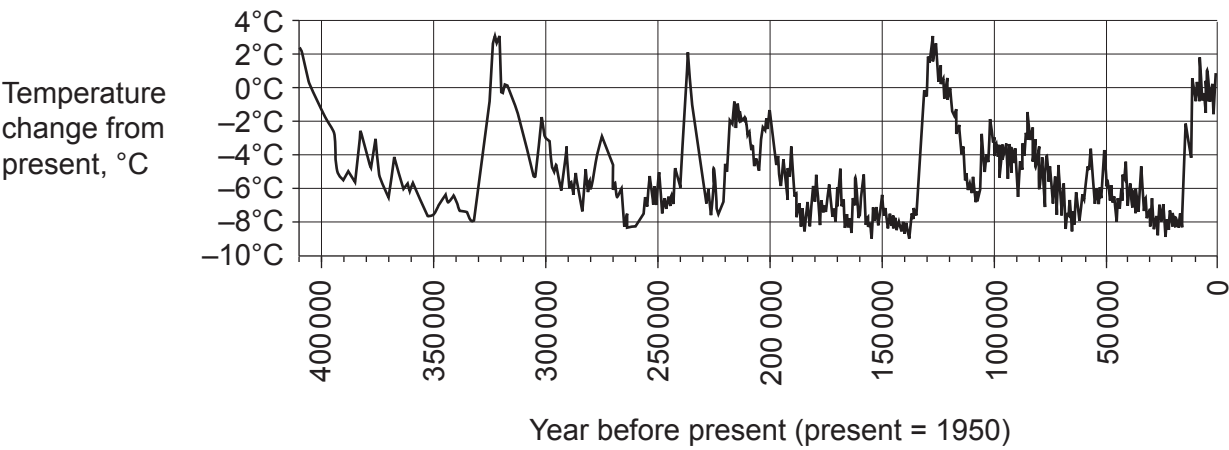
Changing Climate

2 (a) Choose the correct definition of climate change.

- 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.

Write the correct letter in the box. [1]

(b) The graph below shows the changes in global temperature over the last 400 000 years.



Using data from the graph, describe the trend shown.

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..... [4]

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]**

Sustaining Ecosystems

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

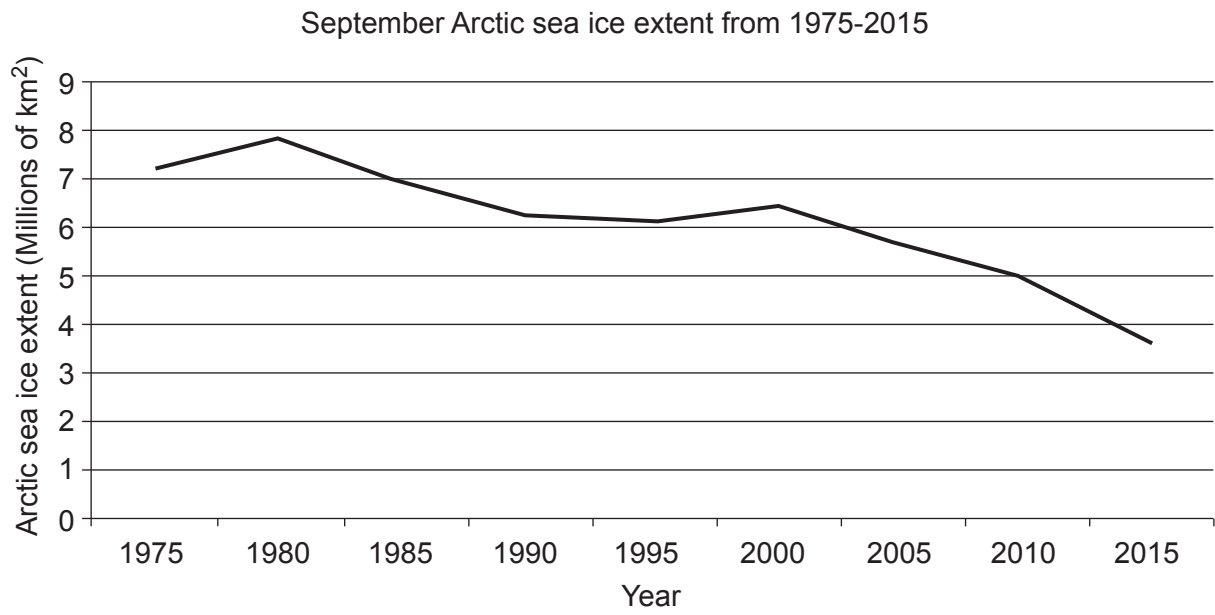
- A** A type of tourism that protects the environment.
- B** The interconnectedness of environments.
- C** The interdependence of plants and animals with the environment they live in.
- D** The place where animals and plants live.

Write the correct letter in the box. **[1]**

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

1
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2
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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]

12
SECTION B

Answer **all** the questions.

Physical Geography Fieldwork

5 (a) Study the table below, which shows the results of an investigation into longshore drift.

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

Using data from the table, describe the pattern in the longshore drift data collected.

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..... [4]

(b) Study **Fig. 4** in the separate Resource Booklet, students’ data presentation from physical geography fieldwork data.

A student has used GIS to present their findings on changes in beach sediment size.

Suggest what **Fig. 4** indicates about the pattern of beach sediment size along the shore.

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..... [2]

ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

[illegible]

This image shows a blank sheet of white paper designed for writing. It features a series of evenly spaced horizontal blue lines across its entire width. A single vertical red line runs down the left side, creating a narrow margin. The paper is otherwise completely empty, with no text or markings.

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