

## Tuesday 17 November 2020 – Morning

### GCSE (9–1) Geography A (Geographical Themes)

#### J383/02 The World Around Us

Time allowed: 1 hour



**You must have:**

- the Resource Booklet (inside this document)

**You can use:**

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



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

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Last name

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#### INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer **all** the questions.

#### INFORMATION

- The total mark for this paper is **60**.
- The marks for each question are shown in brackets [ ].
- Quality of extended response will be assessed in questions marked with an asterisk (\*).
- Spelling, punctuation and grammar (SPaG) and the use of specialist terminology will be assessed in questions marked with a pencil (✎).
- This document has **12** pages.

#### ADVICE

- Read each question carefully before you start your answer.

Answer **all** the questions.

**Ecosystems of the Planet**

1 (a) Study **Fig. 1** in the separate Resource Booklet, a climate graph for Barrow in the USA.

(i) Use the climate graph, **Fig. 1**, to complete the data table below:

Total annual precipitation	113mm
Highest temperature	
Lowest temperature	-28°C
Temperature range	
Number of months with temperature below 0°C	

[3]

(ii) Name **one** ecosystem, **other than polar regions**, which would also have low annual precipitation.

..... [1]

(iii) Explain why it is difficult for plants to grow in polar ecosystems.

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..... [2]

(b) Explain the water cycle in the tropical rainforest.

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..... [4]







### Environmental threats to our Planet

- 3 (a) Choose the correct idea from A, B, C, D to complete the following statement:

Greenhouse gases cause the enhanced greenhouse effect because they ...

- A allow heat from the earth to escape into space.
- B block incoming heat from the sun.
- C release heat into the atmosphere.
- D trap heat from the earth in the atmosphere.

Write the correct letter in the box.

[1]

- (b) Study **Fig. 3** in the separate Resource Booklet, which shows possible flooding in England and Wales linked to a two-metre rise in sea level.

- (i) Name the region of England on **Fig. 3** with the **shortest** length of coastline at risk of flooding.

..... [1]

- (ii) Calculate the number of properties at risk of flooding in the South East region as a percentage of the total for England.

Show your working out. Give your answer as a **whole number**.

..... % [2]

(iii) Suggest how rising sea levels could be a consequence of climate change.

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..... [3]

(iv) **Other than** rising sea levels and coastal flooding, state **two** possible consequences of climate change.

1 .....  
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2 .....  
..... [2]



(c) Study **Fig. 4** in the separate Resource Booklet, showing evidence of climate change.

(i) Evaluate the reliability of **Fig. 4** as evidence of climate change over time.

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..... [4]

(ii) Explain how **one** source of evidence, other than a painting such as **Fig. 4**, is used to study climate change.

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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).

A large area of lined paper for writing, consisting of 25 horizontal dotted lines. A solid vertical line runs down the left side of the page, creating a margin. The rest of the page is open for writing.

A large rectangular area with a solid vertical line on the left and horizontal dotted lines, intended for writing answers.



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