

Friday 17 May 2024 – Afternoon

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

J384/01 Our Natural World

Time allowed: 1 hour 15 minutes

You must have:

• the Resource Booklet (inside this document)

You can use:

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



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Please write clearly in black ink. Do not write in the barcodes.								
Centre number						Candidate number		
First name(s)								
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 70.
- 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 16 pages.

ADVICE

Read each question carefully before you start your answer.



Section A

Global Hazards

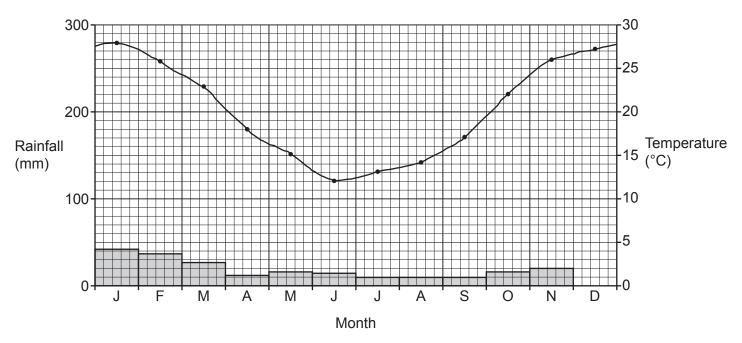
1

(a)

(i) Use the data in the table below to **complete** the climate graph for location **A**.

Month	Rainfall (mm)
December	40

Climate graph for location A



Key

rainfall

-- temperature

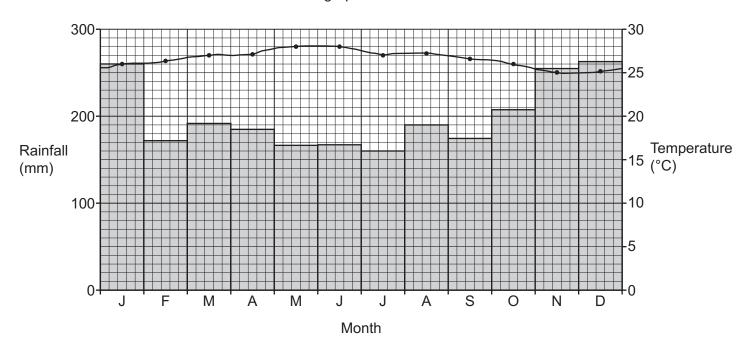
[1]

- (ii) Select which statement best describes the climate of location A.
 - A cold and dry
 - **B** hot and dry
 - **C** hot and wet
 - **D** warm and wet

Write the correct letter in the box.	[1]

The graph below shows the climate for location ${\bf B}.$

Climate graph for location B



(iii)	Compare the climates of location A and location B.
	F41
	[4]
/:. A	Current are piece of additional data that could be procured to understand the nature of
(IV)	Suggest one piece of additional data that could be measured to understand the nature of extreme weather at locations A and B.

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.....[1]

CASE STUDY

	A non-UK natural weather hazard event arising from extreme weather conditions							
	Name of weather hazard event							
	Location							
(b)	Explain the responses to this non-UK natural weather hazard.							
	Ie.							

Cha	naina	Clim	ate

2 (a)	Def	ine the term 'natural climate change'.	
		[1	 I]
(b)	Loc	k at Fig. 1 in the Resource Booklet.	
(i)	Cal	culate the difference in height between locations X and Y .	
(ii)		asure the distance between locations X and Y .	i]
		km [1]
	Lov	v-lying island communities are communities of people who live on islands close to sea level.	
(iii)	Exp	plain one environmental impact of climate change for low-lying island communities.	
		[3	3]
(c)	Loc	k at Fig. 2 in the Resource Booklet.	
(i)	Cal	culate the total percentage of natural causes of climate change.	
	Α	21%	
	В	36%	
	С	45%	
	D	58%	
	Wri	te the correct letter in the box.	1]

(ii)	Explain the theory that volcanic eruptions cause natural climate change.

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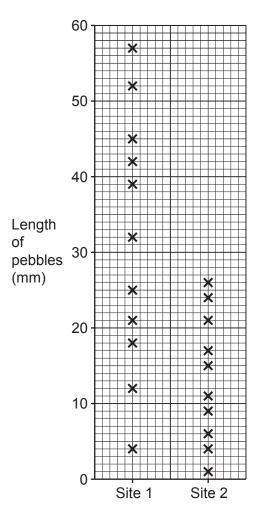
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Distinctive Landscapes

3

(a) The dispersion graph below shows **beach sediment** size data collected at two sites.



(i) Use the data in the table below to **complete** the graph above.

	Site 2
Sediment size (mm)	29

[1]

(ii) Identify the correct median value for Site 1.

- **A** 25
- **B** 31
- **C** 32
- **D** 39

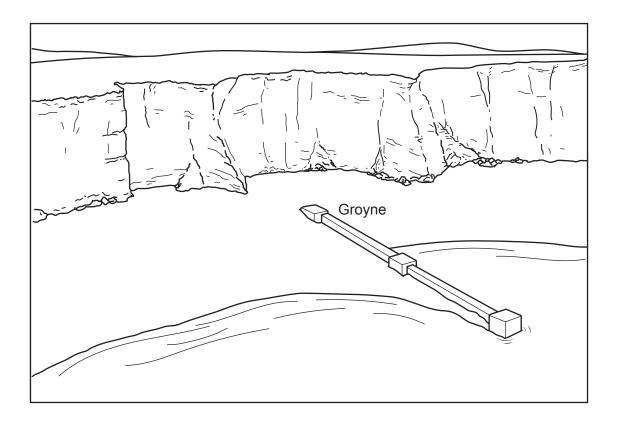
Write the correct letter in the box.

[1]

(iii) Suggest **one** measure which can be used to understand the spread of data shown on the dispersion graph.

[1

(b)



(i) Add an arrow to the diagram to show the direction of longshore drift. [1](ii) Suggest one piece of geographical information that could be added to the diagram.

.....[1]

CASE STUDY

A UK coastal landscape

	Name of coastal location
(c)*	To what extent does geology influence the geomorphic processes that shape coastal landforms?
	rgı

Sustaining Ecosystems

4	Loc	ok at Fig. 3a in the Resource Booklet.
(a)		ntify two features of this tropical rainforest flora and explain the purpose of one of the tures.
	Fea	ature
	Fea	ature
	Pur	pose
		[3]
(b)	Loc	ok at Fig. 3b in the Resource Booklet.
(i)	Cho	pose one statement that describes why the sub-soil in the rainforest soil profile has a thick red er.
	Α	Iron oxides are present which are red
	В	It contains high amounts of organic matter
	С	The red layer is weathered from red rocks
	D	The soil is always waterlogged
	Wri	te the correct letter in the box [1]
(ii)		e one reason to explain why rainforests have soils which are nutrient rich in the upper part he soil profile.
		[1]
(iii)	Sug	ggest one way in which human activity could influence the upper part of the soil profile.
		[2]

Sustainable management of an area of tropical rainforest

CASE STUDY

Name of tropical rainforest area (c) Evaluate the success of one attempt to sustainably manage an area of tropical rainforest.

.....[6]

13

Section B

Physical geography fieldwork

Look at Fig. 4 in the Resource Booklet.

t the students
[2]
[2]
d, explain one way

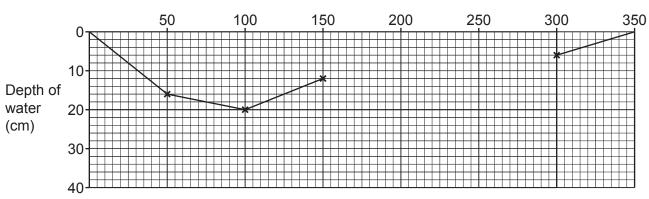
.....[2]

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- (c) Geography students have carried out fieldwork to investigate how the depth of a river channel changes as you travel downstream.
- (i) Complete the graph using the data below.

Depth of water (cm)	Distance across river channel (cm)
12	200
23	250

Distance across river channel (cm)



[2]

(ii) How deep is the river 50 cm across the river channel?

- **A** 12cm
- **B** 14 cm
- **C** 16 cm
- **D** 18 cm

Write the correct letter in the box. [1]

Look at Fig. 4 in the Resource Booklet.

(iii)*	Suggest how the students could improve their data collection to make their results more accurate and reliable .
	[8]
	[0]

END OF QUESTION PAPER

16 EXTRA ANSWER SPACE

If you need extra space use this lined page. You must write the question numbers clearly in the margin.		



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