

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



³18656

³18656

318656 318656 318656 318656 318656 318656 318656 318656 318656 318656 8656 31856 31856 318666 318666 318666 318666 318666 318666 318666 318666 318666 6 318656 6 318656

18656 318

66 318656 31866

18656 318666 318

Please write clearly in black ink. Do not write in the barcodes.							
Centre number					Candidate number		
First name(s)							
Last name _							

56 318₆₅₆ 56 318₆₅₆

56 318₆₅₆

56 318₆₅₆

56 318₆₅₆ 6 318₆₅₆

INSTRUCTIONS

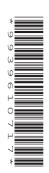
- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- Answer **all** the questions.

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

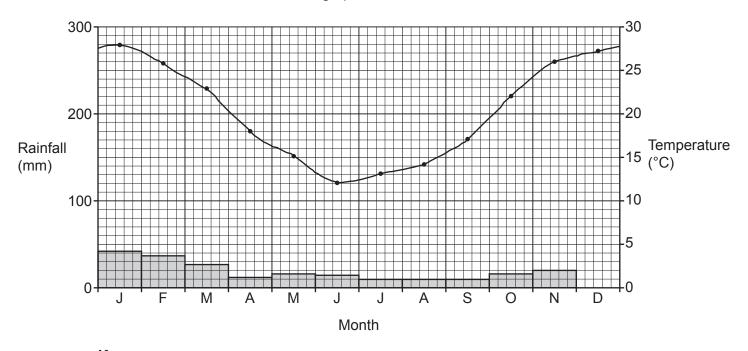
1

(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

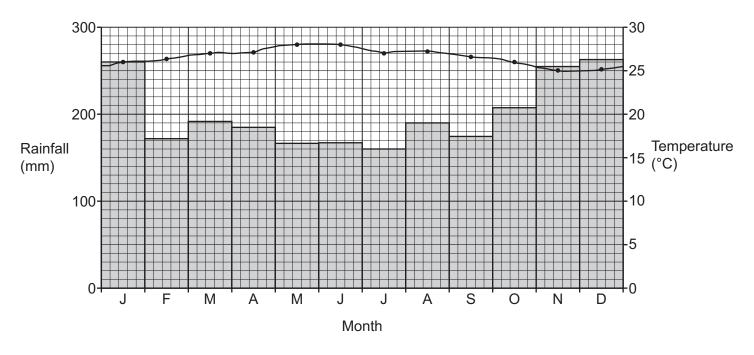
[1]

- (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.
	[4]
iv)	Suggest one piece of additional data that could be measured to understand the nature of extreme weather at locations A and B.
	[1]

© OCR 2024 Turn over

CASE STUDY

	A non-OK natural weather nazard event arising from extreme weather conditions
	Name of weather hazard event
	Location
(b)	Explain the responses to this non-UK natural weather hazard.
	[6]

Changing Climate

2 (a) [Define the term 'natural climate change'.				
	[1]			
(b) l	ook at Fig. 1 in the Resource Booklet.				
(i) (Calculate the difference in height between locations X and Y .				
	m [1]			
(ii) N	Measure the distance between locations X and Y .				
	km [1]			
l	ow-lying island communities are communities of people who live on islands close to sea level.				
(iii) E	explain one environmental impact of climate change for low-lying island communities.				
	[3	3]			
		-			
(c) L	ook at Fig. 2 in the Resource Booklet.				
(i) (Calculate the total percentage of natural causes of climate change.				
	21%				
E	36%				
(45%				
	58%				

)	Explain the theory that volcanic eruptions cause natural climate change.	
		[6]

7 BLANK PAGE

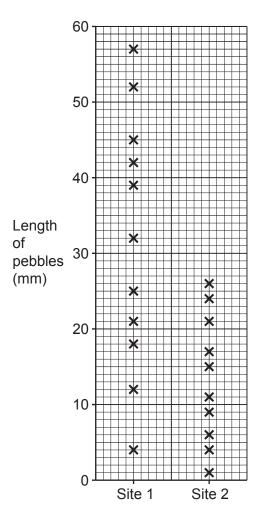
PLEASE DO NOT WRITE ON THIS PAGE

© OCR 2024 Turn over

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)	

Groyne

(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]

© OCR 2024 Turn over

CASE STUDY

A UK coastal landscape

	Name of coastal location
(c)*	To what extent does geology influence the geomorphic processes that shape coastal landforms?
	181

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	cose one statement that describes why the sub-soil in the rainforest soil profile has a thick er.	red
	A	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)		re one reason to explain why rainforests have soils which are nutrient rich in the upper pa he soil profile.	art
			[1]
(iii)	Sug	ggest one way in which human activity could influence the upper part of the soil profile.	
			. [2]

CASE STUDY

Sustainable management of an area of tropical rainforest

	Name of tropical rainforest area
(c)	Evaluate the success of one attempt to sustainably manage an area of tropical rainforest.
	[6]

Section B

Physical geography fieldwork

5

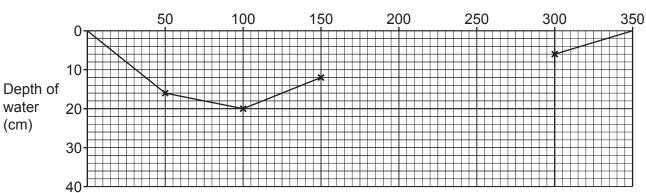
5	Look at Fig. 4 in the Resource Booklet. Geography students have undertaken a fieldwork investigation.
(a)	What are two other investigative steps in the geography fieldwork process that the students could do?
	1
	2
	[2
(b)	For a physical geography fieldwork investigation which you have completed, explain one way you could have improved the data presentation.

.....[2]

- (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





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

END OF QUESTION PAPER

EXTRA ANSWER SPACE

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



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of Cambridge University Press & Assessment, which is itself a department of the University of Cambridge.