

Accredited

GCSE (9–1) Geography B (Geography for Enquiring Minds) J384/01 Our Natural World

Sample Question Paper

Date - Morning/Afternoon

Time allowed: 1 hour 15 minutes

You must have:

· the Resource Booklet

You may use:

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



First name		<u> </u>
Last name		<u>〜</u>
Centre number	Candidate number	\setminus

INSTRUCTIONS

- 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, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- The separate Resource Booklet will be found inside this document.

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.



Section A

Answer **all** the questions.

Global Hazards

1

(a)	Describe what a hot spot is.
	[2]
(b)	Study Fig. 1 in the separate Resource Booklet, a Geographical Information System (GIS) map showing earthquake hazard distribution.
	Using data from Fig.1, describe the pattern of earthquake distribution.
	[4]

(c) Study the table below, showing the total and average number of tropical storms in the USA (1851–2013).

Month	Total number of tropical storms	Average number of tropical storms	
January	2	-	
February	1	-	
March	1	-	
April	1	-	
May	20	0.1	
June	86	0.5	
July	116	0.7	
August	373	2.3	
September	564	3.5	
October	332	2.0	
November	88	0.5	
December	17	0.1	

Select the most suitable graphical technique for presenting the total number of tropical storms column.

Α	Bar	graph

- B Climate graph
- C Cross-section
- **D** Rose chart

Write the correct letter in the box.	
write the correct letter in the box.	

[1]

(d)	Extreme weather conditions vary in contrasting countries.
	Discuss the differences in extreme weather conditions in contrasting countries. You should develop your ideas fully.
	[6]

CI	ha	ոռ	in	~	CI	im	ate
u	на	пu		u	u	1111	ale

2	(a)	Students were studying monthly temperature data to identify long term climate change.	
		Which average is best for them to use?	
		A Mean B Median C Modal class D Mode Write the correct letter in the box.	
			[1]
	(b)	Compare the reliability of two sources of evidence of climate change.	
			•••
			•••
			•••
			•••
			4]

(c*)	Assess whether the social impacts of climate change experienced in the UK in the 21 st century are greater than the environmental impacts.
	[8]

Distinctive Landscapes

		. 2 in the separate Resource Booklet, an OS map extract showing part of the South ingland.	
(a)	(i)	The straight line distance between Mupe Rocks (8479) and Worbarrow Tout (8679) is	3:
		A 1600m B 2000m C 2400m D 2800m Write the correct letter in the box.	[1]
	(ii)	The four-figure grid reference for the museum in Tyneham is:	
		A 8582 B 8781 C 8880 D 8979	
		Write the correct letter in the box.	[1]
(b)		graphical Information Systems (GIS) can show many different kinds of data on one , with each kind of data representing a new 'layer' of the map.	
	mor	gest one extra layer which could be added to the OS map extract in Fig. 3 making it e informative for a group of geography students using the area for a coastal study. Give ason for your answer.	9
			•••
			•••
			 2]

(c)	Explain the stages in the formation of an arch.
	[3]
(d)	CASE STUDY – a river basin in the UK.
	Name of river basin in the UK:
	Explain how human activity has influenced the geomorphic processes in this landscape.
	[6]

Sustaining Ecosystems	Sust	aining	Ecos	vstems
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	Desc	cribe	the yearly tempe	rature and rai	nfall patter	ns on the hot	desert climate g	raph.
								[2
(b)	Whic	ch tw	o statements bes	st explain why	the nutrier	nt cycle of trop	oical rainforests i	s rapid?
	1 2 3 4	Nut The	avy rainfall washe rients are in high e forest floor cond ere is great biodiv	demand from litions allow fo	n the fast-gr or quick dec	rowing plants composition of	f dead plant mat	erial
		A B C D	1 and 2 1 and 4 2 and 3 3 and 4	C				
		Writ	te the correct lett	er in the box.				[1
(c)	Desc	cribe	how tropical raint	forests provid	e valuable	services.		
					,			

(d)	CASE STUDY – a small scale example of sustainable management in either the Arctic or Antarctic.
	Evaluate the success of one small scale example of sustainable management in either the Arctic or Antarctic.
	[6]

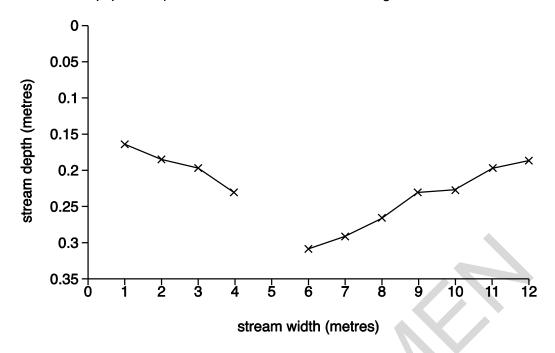
Section B

Answer all the questions

Physical Geography Fieldwork

(a)	Study Fig. 4 in the separate Resource Booklet, a photograph a student has taken on a fieldtrip.							а			
	1										
	2										
(b)	The ta						heet fror	m a fieldw	vork inve	stigation.	[2]
Num	ber:		Seven				7				
Stream width:				13.7 metres							
eam d	epth (ı	recorded	d every n	netre):							
0.16m 0.17m 0.18m		0.23m	0.29m	0.31m	0.28m	0.26m	0.23m	0.23m	0.19m	0.18m	
ble s	ize (sa	mple of	six pebb	oles):							
90mr	n	45r	mm	401	mm	38	mm	45ı	mm	36m	m
	(i)	Using the	e table al	bove, ca	lculate th	ne range	of the pe	bble size). 		
	(ii)	Using the	e table al	bove, ca	lculate th	ne mode	of the str	eam dep	th.		[1] [1]
	(b) Num eam weam d on 0 oble si	fieldtr State the st 1 2 (b) The tandard depth (income size (sam width: eam depth (income size (sam yidth)) ble size (sam yidth) (i)	fieldtrip. State two way the student's finction of the student's finc	fieldtrip. State two ways this phethe student's fieldwork 1 2 (b) The table below shows Number: Seven am width: am depth (recorded every recorded eve	fieldtrip. State two ways this photograph the student's fieldwork investigated to the	State two ways this photograph could be the student's fieldwork investigation. 1	fieldtrip. State two ways this photograph could be used enthe student's fieldwork investigation. 1	fieldtrip. State two ways this photograph could be used effectively the student's fieldwork investigation. 1	fieldtrip. State two ways this photograph could be used effectively in the dathe student's fieldwork investigation. 1	State two ways this photograph could be used effectively in the data prese the student's fieldwork investigation. 1	State two ways this photograph could be used effectively in the data presentation see the student's fieldwork investigation. 1 2 (b) The table below shows part of a data collection sheet from a fieldwork investigation. Number: Seven Seam width: 13.7 metres Seam depth (recorded every metre): Som [0.17m [0.18m [0.23m [0.29m [0.31m [0.28m [0.26m [0.23m [0.23m [0.19m [0.29m [0.29m [0.31m [0.29m [0.29m [0.39m [0.29m [0.39m [0.29m [0.39m [0.29m [0.39m [0.29m [0.39m [0.29m [0.29m [0.39m [0.29m

(iii) Complete the cross section below using information from the data collection sheet.



(c) For a physical geography fieldwork investigation which you have completed, evaluate **one** technique you used to collect data.

[1]

(d*)	Figs 5, 6 and 7 in the separate Resource Booklet show information from a GCSE geography student's fieldwork investigation.
	Using evidence from Figs 5 , 6 and 7 , write a conclusion to the question for investigation "Does the process of longshore drift occur at Sheringham?" Develop your answer.
	[8] Spelling, punctuation and grammar and the use of specialist terminology [3]

ADDITIONAL ANSWER SPACE

If you use this lined space to complete the answer to any question(s), the question number(s) must be clearly shown.

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