

Wednesday 24 November 2021 – 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				Candidate number				
First name(s)								
Last name								

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)	Stu	dy Fig. 1	in the	separa	ate Res	source	Bookle	t, whic	h show	/s part	of a ho	t deser	t ecos	ystem.
	Exp Fig	olain how . 1 .	the w	ood ra	at is co	onnect	ed to d	other c	ompor	ients o	f the e	ecosyst	em sh	own in
														[3]
(b)	Stu	dy the ta	ble bel	ow whi	ich sho	ws clin	nate da	ata for a	a tropio	cal rain	forest.			
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Averag tempe	_	onthly es (°C)	26	27	28	28	29	28	28	28	28	27	27	27
Total r			229	175	196	194	173	173	168	198	180	212	257	258
	(i)	Calcula	te the t	total ar	nnual ra	ainfall.								
														[1]
	(ii)	State th	ie mod	e for th	ne temp	eratur	e data.							
														[1]
	(iii)	Identify tropical			of the	climat	e data	show	n in th	e table	above	e that i	s typic	al of a
														[1]

(c)*	CASE	STUDY	- threats	to co	oral reef	i biodiversi	ty
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Coral reef studied: To what extent is human activity threatening the biodiversity of coral reefs?
[12]
Spelling, punctuation and grammar and the use of specialist terminology [3]

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People of the Planet

(a)	Wh	ich of the following is a correct definition of a world city?	
	Α	a capital city of a country	
	В	a city considered to be important in the global economic system	
	С	a city with a population greater than ten million	
	D	a city with rapid urban growth	
		Write the correct letter in the box.	[1]
(b)		dy Fig. 2 in the separate Resource Booklet, which shows the Kherwadi area of the citymbai in India.	/ Of
	(i)	Using evidence from Fig. 2, describe one challenge that may affect the city.	
			[2]
	(ii)	Explain how two pull factors cause rapid urbanisation in LIDCs.	
		1	
		2	
			[4]

(c)		dy Fig. 3 in the separate Resource Booklet, which shows global variations in the centage (%) of population with access to the internet.
	(i)	Describe the pattern of internet access shown in Fig. 3.
		[3]
	(ii)	Briefly explain how internet usage shows evidence of economic development.
		[2]
((iii)	Outline how one other development indicator can show evidence of uneven development.
		[2]

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Explain reasons for uneven development.
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Environmental threats to our Planet

(a)		dy Fig. 4 in the separate Resource Booklet, which shows changes in global temperature d carbon dioxide (CO_2) levels since 1000AD.							
	(i)	Whice Fig.	ch one of the following events is associated with the period of time labelled X o 4 ?	n					
		Α	Medieval Warming						
		В	Modern Warming						
		С	The Ice Age						
		D	The Little Ice Age						
		Write	e the correct letter in the box.	1]					
	(ii)		ch of the following is the correct difference between the highest and lowest averag al temperatures shown on Fig. 4 ?	е					
		Α	0.2°C						
		В	0.5 °C						
		С	0.8°C						
		D	1.2°C						
		Write	e the correct letter in the box.	1]					
	(iii)	Expl	ain how the enhanced greenhouse effect contributes to global warming.						
			[3	3]					

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(D)	State two natural causes of climate change.	
	1	
	2	
		[2]
(c)	Explain why tropical storms only occur over tropical and sub-tropical oceans.	
		Γ Δ 1

(d)*	CASE STUDY – El Niño/La Niña drought event
	Drought event studied:
	Assess whether the only cause of this drought event was the extreme weather conditions of El Niño/La Niña.

END OF QUESTION PAPER

10 ADDITIONAL ANSWER SPACE

If additiona must be cle	I space is required, you should use the following lined page(s). The question number(searly shown in the margin(s).
	1

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