OCR SPI	ECIMEN
General Certificate of Secondary Education Geography A Unit A671: Extreme Environments	J380
Specimen Paper Candidates answer on the question paper. Additional materials: Resource Booklet	Time: 1 hour
Candidate Candidate Surname	
Centre Candidate Number Number	
 INSTRUCTIONS TO CANDIDATES Write your name in capital letters, your Centre Number and Candidat Use black ink. Pencil may be used for graphs and diagrams only. Read each question carefully and make sure you know what you hav answer. Answer all the questions. Do not write in the bar codes. Do not write outside the box bordering each page. Write your answer to each question in the space provided. 	
 INFORMATION FOR CANDIDATES The number of marks for each question is given in brackets [] at the question. The total number of marks for this paper is 50. You will be awarded marks in questions 3(b) and 4(b)(ii) for the quality your answer. 	
	FOR EXAMINER'S USE
	2
	3
	4
	TOTAL
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SP (SLM) T12103

[Turn over

		2
		Section A – Hot Deserts and Extreme Environments generally
		Answer all questions
1	(a)	Name ONE hot desert environment that you have studied.
		[1]
	(b)	State TWO reasons why that desert environment is defined as 'extreme'.
		1
		2
		[2]
	(c)	Name and describe ONE physical process and resulting landform that may occur in a hot desert environment.
		You may draw a diagram to help you.
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L		[4]
		ניז

(i)	Describe the key features of the climate using Fig. 1 .
	Temperature
	Rainfall
(ii)	Explain why desert areas are hot and dry.
	Hot
	Dry
(a) Stu	
	udy Fig. 2.
	udy Fig. 2.
	udy Fig. 2 .

2	(a)	The following statements explain how dese correct order.	ertification can happen. They are not in the
		Put numbers in the boxes to complete the cor	prrect order of the statements.
		The first one has been done for you.	
		The soil becomes loose	
		Soil is blown away	
		Less rain falls for a number of years	1
		The soil becomes dry	
		The land turns to desert	
			[2]
	(b)	Explain ONE problem caused by desertification	ion for each of the following:
		The Environment	
		Poonlo	
		People	
			[4]
			Section A Total [25]

	5		
	Section B – Your chosen ex	treme environment	
	r answers in this section must refer to either a po ironment.	lar environment or a mo	ountain
Circ	le the extreme environment you have studied:	polar mountair	ı
(a)	State THREE reasons why your chosen environ	ment is 'extreme'.	
	1		
	2		
	3		[3]
(b)	Explain why your extreme environment is challe	nging for local people ar	d visitors.
(c)	You have been asked to organise an expedition State FOUR items that you would have to take i Give ONE reason for each choice.		environment.
	Item	Reason	
1			
2			
3			
4			

[4]

(b)	 (i)	Describe how your extreme environment might change in the future. Give reasons f your answer.

(b) (ii)	Give THREE reasons why it is important to look after your chosen extreme environment.
	Reason 1
	Reason 2
	Reason 3
	[6]
	Section B Total [25]

Paper Total [50]

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OXFORD CAMBRIDGE AND RSA EXAMINATIONS

General Certificate of Secondary Education

GEOGRAPHY A

J380

Unit A671: Extreme Environments

Foundation

Specimen Mark Scheme

The maximum mark for this paper is 50.

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Section A	- Hot Deserts and Extreme Environments generally	
Question Number	Answer	Max Mark
1(a)	Name ONE hot desert environment that you have studied. Any acceptable desert name.	[1]
1(b)	 State <u>TWO</u> reasons why that desert environment is defined as 'extreme'. Any two of the following: High daytime temperatures ✓ low night time temperatures ✓ lack of rainfall ✓ isolation idea ✓ lack of resources idea ✓ 	[2]
1(c)	Name and describe <u>ONE</u> physical process and resulting landform that may occur in a hot desert environment. You may draw a diagram to help you. Insolation weathering \checkmark exfoliation \checkmark granular disintegration \checkmark onion skin \checkmark freeze thaw \checkmark chemical weathering \checkmark Process name relevant and appropriate \checkmark , accurate description of process relevant and appropriate \checkmark and relevant physical feature \checkmark with accurate description of way process leads to landform \checkmark [1 + 1 + 1+1] either using annotated and accurate diagram and or written text	[4]
1(d)(i)	Deserts are hot and dry areas. Study Fig 1 and Fig 2 in the separate Resource Booklet. Describe the key features of the climate using Fig. 1. Any three valid, descriptive points. E.g. Some months have no precipitation \checkmark any NAMED reference to temperature \checkmark correlation between temperature and precipitation \checkmark	
1(d)(ii)	 ALLOW ONE for development (i.e. use of data to exemplify) Explain why desert areas are hot and dry. Point marking Hot - e.g. Sun often overhead ✓ lack of cloud cover ✓ Dry - e.g. Distance from ocean ✓ offshore winds ✓ often found in rain shadows ✓ high pressure influences ✓ Point mark reserve 1 mark for each section. Allow development marks if appropriate. E.g. high pressure influences ✓ therefore descending air/lack of eveneration ✓ 	[4] [4]
1(e)	 evaporation ✓ Study Fig. 2. Explain how vegetation can survive in the hot, dry desert climate. Point marking 1 mark for each explanation (allow additional mark for development if present e.g. spines rather than leaves ✓ to reduce transpiration) Indicative content Store water ✓ long roots ✓ remains dormant when no rainfall ✓ spines rather than leaves ✓ 	[4]

Section A	- Hot Deserts and Extreme Environments generally	
Question Number	Answer	Max Mark
2(a)	The following statements explain how desertification can happen. They are not in the correct order.	
	Put numbers in the boxes to complete the correct order of the statements.	
	The first one has been done for you.	
	1. Less rain falls for a number of years.	
	2. The soil becomes dry.	
	3. The soil becomes loose.	
	4. Soil is blown away.	
	5. The land turns to desert.	
	TWO or THREE correct ✓ for one mark.	
	FOUR correct $\checkmark \checkmark$ for both marks.	[2]
2(b)	Explain <u>ONE</u> problem caused by desertification for each of the following – The Environment, People.	
	Points mark – 1 mark for valid point, 1 mark for development	
	INDICATIVE CONTENT	
	Environment	
	Land exhausted of nutrients ✓	
	Soil is lost √through wind erosion √	
	Crops no longer grow ✓	
	Overgrazing ✓Nomadic farmers allow grazing on marginal land ✓ Land stripped bare making soil more vulnerable to erosion ✓	
	More deforestation \checkmark Vegetation felled – wood for fuel needed \checkmark	
	Protective vegetation disappears making soil more vulnerable to erosion \checkmark	
	People	
	More food needed ✓	
	Poorer grazing \checkmark Lower crop production \checkmark	
	Underground water reserves used up ✓	
	Fires \checkmark started from ash then becoming out of control \checkmark	
	Land stripped bare making soil more vulnerable to erosion √less useful for farming/grazing	
	Migration ✓ Refugees from civil wars/droughts/persecution ✓	
	Puts pressure on food/water resources ✓	[4]
	Section A Total	[25]

Question Number	Answer	Max Mark
	Your answers in this section must refer to either a polar environment or a mountain environment.	
	Circle the extreme environment you have studied: polar mountain	
3(a)	State <u>THREE</u> reasons why your chosen environment is 'extreme'	
	Allow any THREE specific references to temperature, aridity/precipitation, relief/topography, isolation, altitude, danger.	[3]
(b)	Explain why your extreme environment is challenging for local people <u>and</u> visitors.	
	Local people: Ideas such as harsh living environment, struggle for survival, possible lack of income, negative impacts of tourism.	
	Visitors: Ideas such as the notion of danger, physical challenge, climatic challenges, clothing/equipment choice.	
	0 marks No evidence submitted or response does not address the question.	
	Level 1 [1-2 marks] Demonstrates limited understanding of evidence with an attempt at explanation. Challenge is identified and described in basic terms. Only ONE challenge mentioned. Challenge is related to local people OR visitors. Written work contains mistakes in spelling, grammar and punctuation, which sometimes hinder communication.	
	Level 2 [3-4 marks] Demonstrates sound understanding of the evidence with clear explanations. Challenges are described with some basic detail together with some explanation. At least TWO challenges mentioned. Challenges relate to local people AND visitors. Written work is legible and spelling, grammar and punctuation are mostly accurate. Meaning is communicated very clearly.	
	Level 3 [5-6 marks] Demonstrates thorough understanding of the evidence with accurate and developed explanations. Challenges are described with explanatory detail, perhaps with specific examples given.	
	At least THREE challenges mentioned. Challenges relate to local people AND visitors. Written work is legible and spelling, grammar and punctuation are accurate. Meaning is communicated clearly.	[6]
(c)	You have been asked to organise an expedition to your chosen extreme environment.	
	State <u>FOUR</u> items that you would have to take in order to survive.	
	Give <u>ONE</u> reason for each choice.	
	Four items with explanation required for each mark. Items may relate to clothing, food, or survival.	
	Indicative content: Warm clothing to avoid chill/frostbite/ to aid survival in sub-zero temperatures ✓	

Section B	- Your Chosen Extreme Environment	
Question Number	Answer	Max Mark
	Many layers to trap air to increase insulation \checkmark	
	Sun glasses prevent eye damage ✓	
	Walking boots for rough terrain ✓	
	Dried food light to carry/relatively easy to cook ✓	
	Energy food to provide body with energy to cope with physical challenge✓	
	Gun/knife for protection from animals \checkmark	
	GPS for accurate location/tracking ✓	
	Radio to keep in contact in case of emergency ✓ (Mobile phone mark only if well argued)	
	[4x1]	[4]
4(a)	Identify <u>ONE</u> source of information that you found useful when studying your extreme environment. Explain why it was helpful.	
	Description of relevant and appropriate resource (book/magazine/DVD/photograph etc) ✓ for first mark.	
	ONE mark available for reason	
	DVD \checkmark had a lot of facts and figures which showed clearly how difficult it was to live there \checkmark	
	DVD \checkmark had images that showed what the landscape was like and it was an up to date resource which meant that it showed the environment as it currently is \checkmark)	
	[1 + 1]	[2]
4(b)(i)	Describe how your extreme environment might change in the future. Give reasons for your answer.	
	Point marking with ONE development mark available for reasons	
	Migration away from area√increased isolation √fewer jobs√	
	Growth in tourism \checkmark development of local infrastructure to aid this \checkmark more job opportunities/less out migration \checkmark	
	[1 reserved + (1+1+1) OR	
	[1 reserved + (1+1+dev) = [4]	
	Changes may be physical, human, environmental or a combination of each.	[4]

Section B	- Your Chosen Extreme Environment	
Question Number	Answer	Max Mark
4(b)(ii)	Give <u>THREE</u> reasons why it is important to look after your chosen extreme environment	
	Reasons for looking after environment may be physical, human, environmental or a combination of each.	
	0 marks No evidence submitted or response does not address the question.	
	Level 1 [1-2 marks] . Demonstrates limited understanding of the issue. ONE or TWO reasons given with little or no development. Reasons are identified and described in basic terms. Written work contains mistakes in spelling, grammar and punctuation, which sometimes hinders communication.	
	Level 2 [3-4 marks] . Demonstrates sound understanding of the issue. TWO or THREE reasons given with basic development. Reasons are identified and described clearly. Written work is legible and spelling, grammar and punctuation are mostly accurate. Meaning is communicated clearly.	
	Level 3 [5-6 marks] Demonstrates thorough understanding of the need to preserve chosen environment. THREE relevant reasons given (ie importance of fragile ecosystems in extreme environment, indigenous peoples, uniqueness of landscape). Full marks given for all reasons fully developed. Written work is legible and spelling, grammar and punctuation are accurate. Meaning is communicated very clearly.	[6]
	Section B Total	[25]
	Paper Total	[50]

Question	AO1	AO2	AO3	Total
1(a)	1			1
1(b)	2			2
1(c)	2	1	1	4
1(d)(i)		1	3	4
1(d)(ii)	4			4
1(e)	4			4
2(a)	2			2
2(b)	2	2		4
3(a)	3			3
3(b)	2	4		6
3(c)	2	1	1	4
4(a)	1	1		2
4(b)(i)	1	1	2	4
4(b)(ii)		3	3	6
Totals	26	14	10	50

Assessment Objectives Grid (includes QWC)

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