Please write clearly in block capitals.	
Centre number	Candidate number
Surname	
Forename(s)	
Candidate signature I declare this is my own v	vork.

GCSE GEOGRAPHY

Paper 1 Living with the Physical Environment

Monday 22 May 2023	Afternoon	Time allowed: 1 h	hour 30 minutes		
Materials For this paper you must have:	a d)			iner's Use	
 the OS map key insert (enclose a pencil a rubber 	ea)		Question 1	Mark	
 a ruler. You may use a calculator. 			2		
Instructions			3		
Use black ink or black ball-poirFill in the boxes at the top of the			4		
Answer all questions in Section	on A and Section B.		5		
	i		TOTAL		

Answer two questions in Section C.

Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial)

- You must answer the questions in the spaces provided. Do **not** write outside the box around each page or on blank pages.
- If you need additional extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The total number of marks available for this paper is 88.
- Spelling, punctuation, grammar and specialist terminology will be assessed in Question 01.11.



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			Do not write outside the box		
For the mu	ultip	le-choice questions, shade the circle next to the correct answer.	507		
CORRECT METHOD WRONG METHODS S C					
If you want	t to	change your answer you must cross out your original answer as shown.			
If you wish select as s		return to an answer previously crossed out, ring the answer you now wish to vn.			
		Section A The challenge of natural hazards	-		
		Answer all questions in this section.			
Question 1	Tł	ne challenge of natural hazards	-		
0 1.1	W	hich one of the following is a natural factor affecting climate change?			
	Sł	nade one circle only. [1 mark]			
	A	Agriculture			
	в	Burning fossil fuels			
	С	Deforestation			
	D	Volcanic activity			









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Question 1 continues on the next page











Year	Areas affected	Name of storm	Number of deaths
1970	Bangladesh	Great Bola	300 000
1975	China	Nina	171 000
1991	Bangladesh	Gorky	138 866
2008	Myanmar	Nargis	138 366
1985	Bangladesh	Urir	15 000
1977	India	Devi Taluk	14 200
1998	Central America	Mitch	11 400
2013	Philippines	Haiyan	6 200
1991	Philippines	Uring	5 960
2007	Bangladesh	Sidr	4 234
1997	Vietnam	Linda	3 859
2004	USA, Caribbean	Jeanne	2 782
2005	USA	Katrina	1 833
2005	Central America	Stan	1 629



0 1.6	Using Figure 4 , which statement describes where tropical storms form? Shade one circle only.		
	Shade one choice only.	[1 mark]	
	A Between the Tropics		
	B In the centre of large land masses		
	C South of the Tropic of Capricorn		
	D Along the west coasts of Europe and Africa		
0 1.7	Using Figure 4 , name the tropical storm which caused the greatest nu deaths after the year 2000.	umber of [1 mark]	
0 1.8	Calculate the median number of deaths caused by the tropical storms Figure 4 .	listed in [1 mark]	
0 1.9	Outline one reason why the number of deaths caused by tropical stor	ms varies. [2 marks]	
	Question 1 continues on the next page		



Study **Figure 5**, a photograph of a cyclone shelter in Bangladesh and a map showing the predicted track of Cyclone Amphan in May 2020.

Figure 5





		Do not write outside the box
0 1 1 0	To what extent can protection and prediction strategies reduce the effects of tropical storms?	SOX
	Use Figure 5 and your own understanding.	
	[6 marks]	
	Extra space	
	Question 1 continues on the next page	







33

Extra space			
		•	
	End of Section	Α	
	Turn over for Section	on B	















02.8	Suggest one example of a human activity that might interfere with the nutrient cyc shown in Figure 9 .	
		_
	Question 2 continues on the next page	
	Turn o	ver ►



Do not write

		Study Figure 10 , a Fact file about deforestation in the tropical rainforests.	Do not write outside the box
		Figure 10	
		pical rainforests are home to more than 50% of the plant and animal species Earth.	
		orestation from 2001 to 2019 released 105 gigatonnes of carbon dioxide the atmosphere.	
	Cat	tle ranching accounts for 80% of current deforestation in Brazil.	
	Indo	onesia's forests are being cleared to create oil palm plantations.	
	Bau	uxite, iron ore, manganese, gold and diamonds are mined in tropical forests.	
	Rer	noval of forest increases the risk of flooding and soil erosion.	
02		'Tropical rainforest deforestation has major economic and environmental impact Do you agree? Use Figure 10 and your own understanding to explain your answer. [6 r	ots.' narks]



Question 2 co	ntinues on th	e next page	
		_	



02.10	Extreme environments provide opportunities for economic development. These opportunities include energy, farming, fishing, mining and tourism.
	Choose either a hot desert environment or a cold environment.
	Discuss the opportunities for economic development in your chosen environment.
	Use a case study and your own understanding. [9 marks]
	Chosen environment
	Extra space



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-		
-		25
	End of Section B	
	Turn over for Section C	
	Turn over ►	



Section C Physical landscapes in the UK	
Answer two questions from the following:	
Question 3 (Coasts), Question 4 (Rivers), Question 5 (Glacial).	
Question 3 Coastal landscapes in the UK	
0 3 . 1 Which one of the following is a process of erosion in coastal areas?	
Shade one circle only.	[1 mark]
A Hydraulic power	
B Longshore drift	
C Rock fall	
D Slumping	
0 3 . 2 Give one type of weathering that takes place in coastal areas.	[1 mark]





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Do not write outside the box

Study **Figure 12**, a photograph looking northwards along the coastline towards Duncansby Head.





0 3 . 5	Explain how spits and bars form along the coast as a result of deposition.		Do not write outside the box
		[4 marks]	
	Extra space		
	Question 3 continues on the next page		







		Do not wr outside th box
Extra space		
		15
	End of Question 3	



Question 4	River landscapes in the UK	Do not write outside the box
04.1	Which word describes the process of erosion when stones collide with each other as they move downstream?	
	Shade one circle only. [1 mark]	
	A Abrasion	
	B Attrition	
	C Hydraulic action	
	D Solution	
04.2	Give one way rivers transport material. [1 mark]	
l		1

Study Figure 14, a 1:50 000 Ordnance Survey map extract showing the River Crouch estuary in Essex. Figure 14 02 00 01 03 04 05 97 97 Coney Hall 1644 Holliwell Point Holliwell Fm 5 96 96 θ R С Foulness Point 1 R E V 1 95 95 Clark Hard Crouch Corner Great Shell Corner East Newlands 0 Ridgemarsh 94 94 Courtsend ÷ N Wick 01 02 03 05 00 04 Ν 0 Kilometres 1 0 4 . 3 Using Figure 14, what is the approximate area of grid square 0495 covered by salt marsh? Shade one circle only. [1 mark] Α 0.2 km² \bigcirc 0.4 km^2 В \bigcirc $0.6 \, \text{km}^2$ С \bigcirc **D** 0.8 km² \bigcirc Question 4 continues on the next page







04.5	Explain how physical factors can affect flood risk.	Do not write outside the box
	[4 m	arks]
	Extra space	
	Question 4 continues on the next page	
	Turn	



Study Figure 16 , an extract from scheme on the River Thames.	om a website that gives details of a flood manage	ment
	Figure 16	
The River Thames between Datche undefended developed floodplain ir	et and Teddington has the largest area of n England.	
	a major flood in the area is currently around nate change, damage could be twice as great	
The Environment Agency is plannin of the River Thames.	ng to build a new flood channel along this part	
15 000 homes and 2400 businesse	ts, including protection from flooding for s, improved biodiversity for wildlife through habitat and opportunities for recreational boating and angling.	
) 4 . 6 Discuss the issues which can a	arise from flood management schemes.	
Use Figure 16 and your own u	•	arks]



Extra space		Do ou
	End of Question 4	
		Turn over ►



Question 5	Glacial landscapes in the UK	Do not writ outside the box
0 5.1	What is the name given to a large boulder transported and deposited by glacie areas with a different rock type?	rs in
	Shade one circle only. [1	mark]
	A Erratic	
	B Moraine	
	C Outwash	
	D Till	
0 5 2	Give one way glaciers move material. [1	mark]
	• 	











0 5.5	Explain how corries form as a result of glacial erosion.	Do not write outside the box
	[4 marks]	
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	Question 5 continues on the next page	
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END OF QUESTIONS



Extra space





Question number	Additional page, if required. Write the question numbers in the left-hand margin.



Question number	Additional page, if required. Write the question numbers in the left-hand margin.



Question number	Additional page, if required. Write the question numbers in the left-hand margin.









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