Surname	Centre Number	Candidate Number
First name(s)		2



GCE AS/A LEVEL

2110U10-1



TUESDAY, 16 MAY 2023 - AFTERNOON

GEOGRAPHY – AS unit 1 CHANGING LANDSCAPES

2 hours

For Examiner's use only						
Question	Maximum Mark	Mark Awarded				
	16					
Either 1 and 2	16					
or 3 and 4	16					
o ana 4	16					
5.	27					
6.	21					
7.	16					
Total	96					

ADDITIONAL MATERIALS

A calculator.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces at the top of this page.

Write your answers in the spaces provided in this booklet.

In Section A, answer either questions 1 and 2 or questions 3 and 4.

Answer all questions in Section B.

If further space is required you should use the additional page(s) at the back of this booklet. The question number(s) should be clearly shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part-question; you are advised to divide your time accordingly.

This paper requires that you make as full use as possible of appropriate examples and reference to data to support your answers. Sketch maps and diagrams should be included where relevant.

A plain page is available near the back of the booklet for you to add any relevant sketch maps and diagrams you may wish to include. The question number(s) should be clearly shown.



Section A: Changing Landscapes

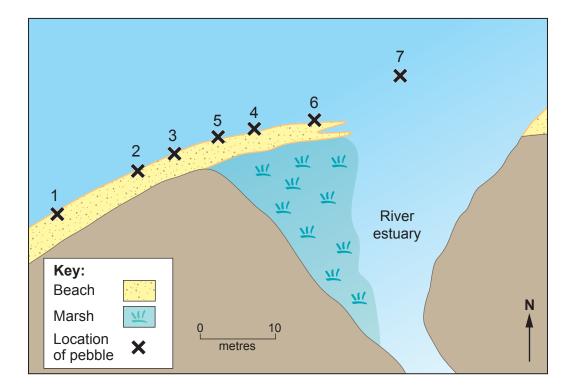
Answer either questions 1 and 2 or questions 3 and 4 from your chosen landscape.

Make the fullest possible use of examples and data to support your answers.

Coastal Landscapes

Answer questions 1 and 2 if this is your chosen landscape.

Figure 1: An aerial view of the movement of a pebble along a coastline, November 2019



Date (November)	1	4	13	19	21	28	30
Location of pebble	1	2	3	4	5	6	7



(i)	Use Figure 1 to describe the pebble's movement from 4 November to 30 Nov
(ii)	Suggest one physical reason for the rapid movement of the pebble from L 1 to Location 2.
(ii)	Suggest one physical reason for the rapid movement of the pebble from L 1 to Location 2.
(ii)	Suggest one physical reason for the rapid movement of the pebble from L 1 to Location 2.
(ii)	Suggest one physical reason for the rapid movement of the pebble from L 1 to Location 2.
	Suggest one physical reason for the rapid movement of the pebble from L 1 to Location 2.



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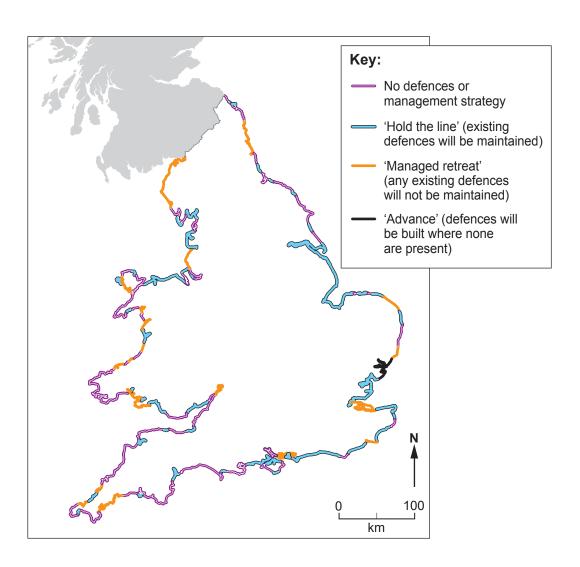
Turn over.

(b) Examine how constructive waves differ from destructive waves.	[8]
dditional space for Question 1 (b) only:	





Figure 2: Planned levels of protection along coastlines in England and Wales, 2020–2030



Source: www.theguardian.com



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2.	(a)	(i)	Use Figure 2 to describe geographical variations in the level of protection along coastlines in England and Wales.) [5]
		•••••		
		•••••		
		•••••		
		••••••		
		(ii)	Suggest one physical reason why the option of 'managed retreat' has been chosen for some places.	[3]
		••••••		
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Turn over.

(b) Examine the role of sea level change in the development of one coastal landform.	[8]
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Additional space for Question 2 (b) only:	

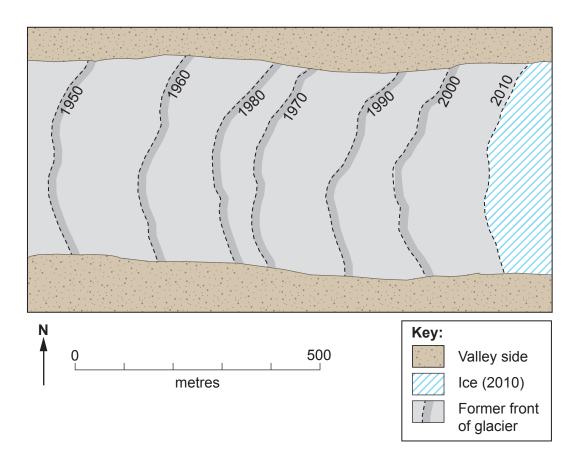




Glaciated Landscapes

Answer questions 3 and 4 if this is your chosen landscape.

Figure 3: A sketch map showing the changing position of the front of a glacier, 1950–2010





	(i) U	se Figure 3							
									•••••
	(ii) S	uggest one	reason for	the rapid	retreat of	the glacier	during the	e 1950s.	
••									

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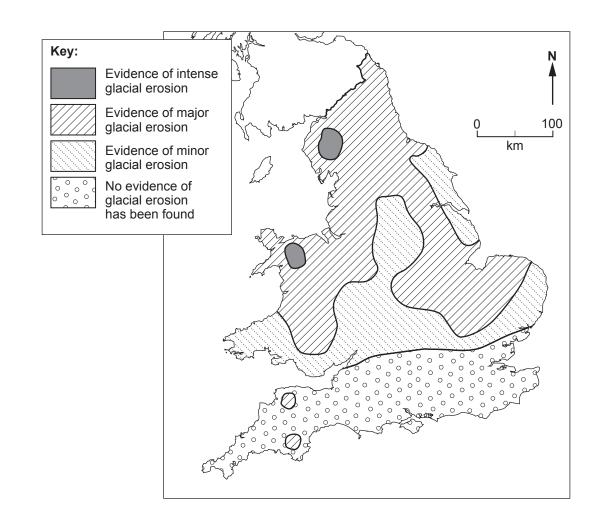
b) Examine how cold-based glaciers differ from warm-based glaciers.	[8]
dditional space for Question 3(b) only:	





Examiner only

Figure 4: Landscape evidence showing the severity of past glacial erosion in England and Wales



(a)	(i)	Use Figure 4 to describe geographical variations in the severity of glacial erosic in England and Wales.
	•·····	

	•••••	
	(ii)	Suggest one physical reason why intense glacial erosion only occurred in certa areas.
	•••••	



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(b) Examine the influence of post-glacial processes on one glacial landform.	[8]
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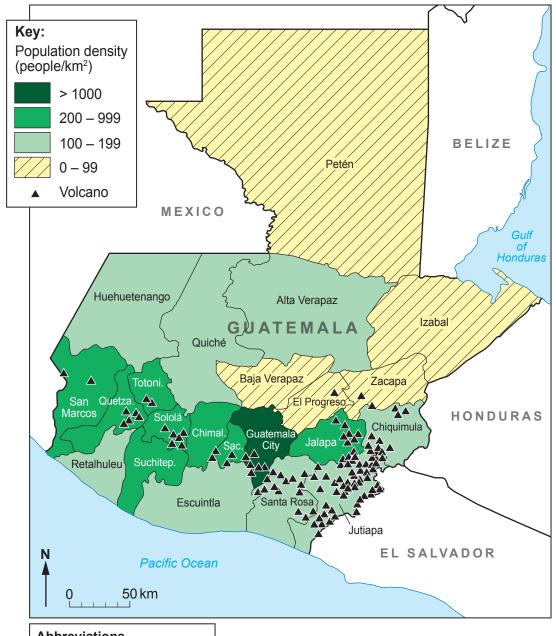


Section B: Tectonic Hazards

Answer all questions.

Make the fullest possible use of examples and data to support your answers.

Figure 5: Population density and location of volcanoes by department in Guatemala



Abbreviations

Chimaltenango Chimal: Quetza: Quetzaltenango Sac: Sacatepéquez Suchitep: Suchitepéquez Totoni: Totonicapan

Source: http://www.insivumeh.gob.gt/folletos/FVQGT.pdf

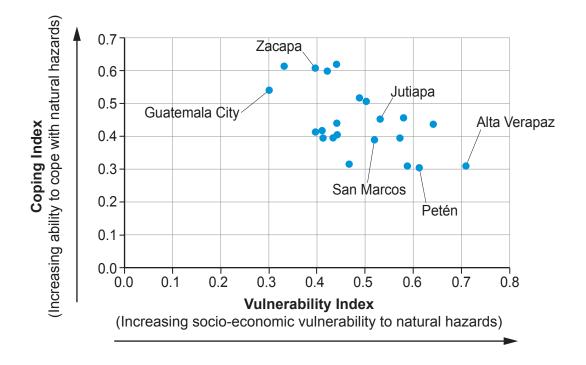


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					Exami
5.	(a)	(i)	Use Figure 5 to describe the distribution of volcanoes in Guatemala.	[5]	only
		•····			
		<u></u>			
					



Figure 6: Indices of vulnerability and ability to cope with natural hazards for the departments of Guatemala



Source: www.pdc.org

(ii)	State the nature of the relationship shown in Figure 6 .	[1]
(iii)	Name and justify a valid statistical test that could be used to analyse these of	lata.
	Name of statistical test :	[1]
	Justification:	[1]
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Addition	onal space for Question s(a)(iv) only.
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	[10]
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Volcanic ash is a major hazard in the form of both pyroclastic flows and volcanic ash fall

Figure 7: The settlement of San Miguel Los Lotes before and after the eruption of Volcán de Fuego in Guatemala, 2018

Figure 7a: San Miguel Los Lotes before the eruption

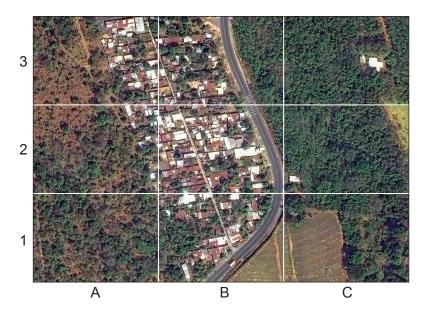
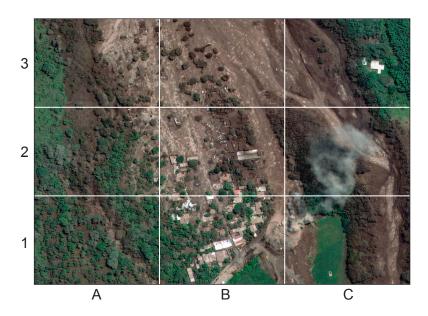


Figure 7b: San Miguel Los Lotes after the eruption



Source: https://www.nytimes.com

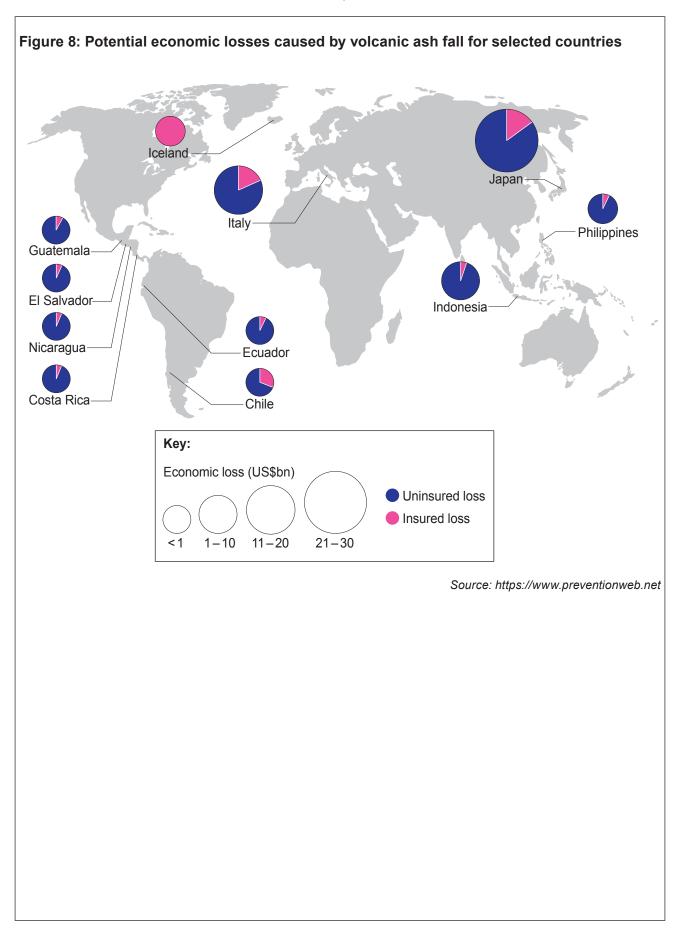


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6.	(a)	Use Figure 7 to describe the impacts of the eruption on San Miguel Los Lotes.	[5]



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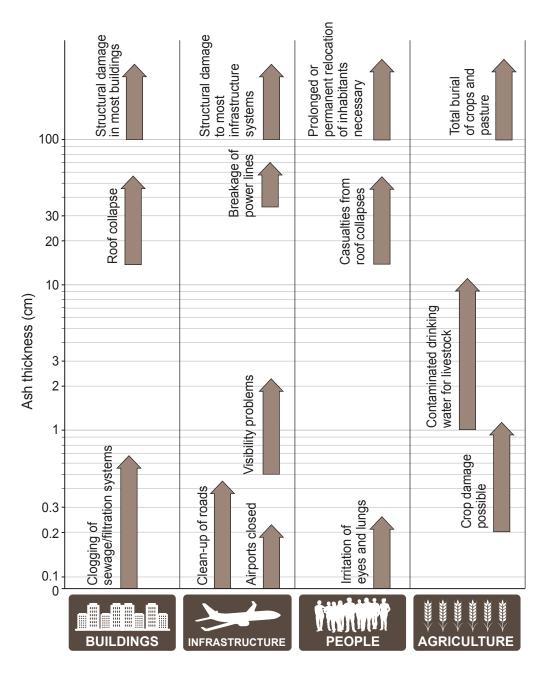




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Figure 9: Potential impacts of volcanic ash fall



Source: https://www.preventionweb.net



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(c) Use Figures 7 to 9 to examine why the impacts of volcanic ash vary.	[10]
dditional space for Question 6(c) only:	



(a) Outline the local and global impacts of one earthquake event.	[8]
Additional space for Question 7 (a) only:	



(b)	Examine the role of depth of focus in determining the impact of an earthquake.	[8]
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	END OF PAPER	



Examiner only

Question number	Additional page, if required for diagrams. Write the question number(s) in the left-hand margin.	Examiner only



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