Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					



General Certificate of Secondary Education Foundation Tier Specimen Paper for Modular Specification 2013

Geography (Specification A)

40301F

Unit 1: Physical Geography

	 -
1 10to:	l ima
Date:	Time:

You will need no other materials:

- the insert (enclosed)
- a ruler

You may use a calculator.

Time allowed

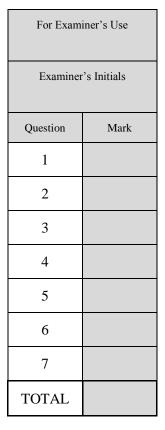
1 hour 30 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer three questions: one from Section A, one from Section B, and one further question from either Section.
- You must answer the questions in the spaces provided.
 Answers written in margins or on blank pages will not be marked.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- Use your case studies to support your answers where appropriate.

Information

- The maximum mark for this paper is 75.
- The marks for questions are shown in brackets
- You will be marked on your ability to:
 - use an appropriate form and style of writing
 - organise relevant information clearly and coherently
 - use specialist vocabulary where appropriate.





Barcode

SECTION A

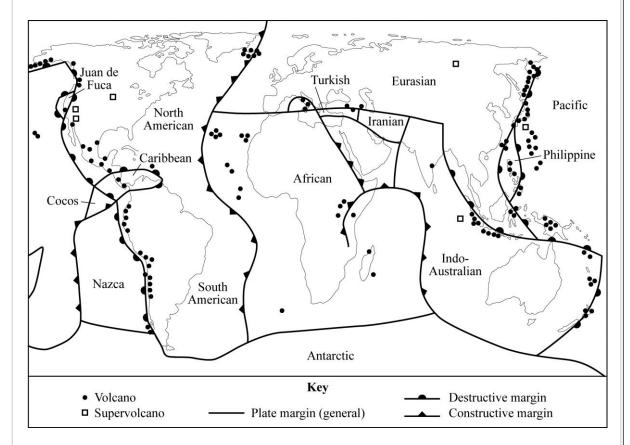
Answer at least **one** question, but **not more than two** questions in this section. Use your case studies to support your answers where appropriate.

1 The Restless Earth

Total for this question: 25 marks

1 (a) Study **Figure 1** which shows the earth's tectonic plates and the distribution of volcanoes and supervolcanoes.

Figure 1





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1	(a)	(i) Tick the correct box to show whether each of the folloabout the distribution of volcanoes and supervolcano	•	
			True	False
		Volcanoes are only found on constructive plate boundaries.		
		There is a line of volcanoes on the west coast of North and South America.		
		The majority of supervolcanoes are to be found near destructive plate boundaries.		
		Both volcanoes and supervolcanoes are sometimes found away from plate boundaries.		(4 marks)
1	(a)	(ii) Complete the paragraph below to explain why volcan constructive plate boundaries. Choose the correct will list.		
		gentle magma apa	art	
		together steep lav	a	
		At constructive plate boundaries, the plates are moving	ng	
		Hot, molten rock called moves up fror	n the mantle	. This
		builds up and a volcano with sides is	formed.	(3 marks)
		Question 1 continues on the next page		

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1	(a)		re one difference betwowing.	een a volcano	and a supervolcano fo	r each of the
		Sha	ape			
		Sca	ale of eruption			
						(4 marks)
						(4 marks)
1	(b)		gure 2 which shows in nost deaths in the last		ut the six earthquakes	hat have
			ı	Figure 2		
		Year	Location	Level on Richter	Number of deaths	
		4070	Tananahan Okina	Scale	055,000	-
		1976	Tangshan, China	7.5	255 000	-
		2004	Sumatra China	9.1	227 900	-
		1920 1923	Haiyuan, China Kanto, Japan	7.8 7.9	200 000 142 000	-
		1948	Ashgabat, USSR	7.3	110 000	-
		2005	Pakistan	7.6	86 000	-
1	(b)	ma Cir	gnitude of the earthquacle either For or Agair	ake, the greate 1st .	st the statement that 'the statement that 'the rumber of death	s'.



Paper 1 Foundation Tier

1	(b)	(ii) Suggest possible reasons why most deaths occurred in Tangshan, China, even though this earthquake measured 7.5 on the Richter scale.
		(2 marks)
1	(c)	Describe a method, other than the Richter Scale, of measuring earthquakes.
		(Extra space)(4 marks)
		Question 1 continues on the next page

Barcode

1	(d)	Describe the immediate and long-term responses to an earthquake that you have studied in a poor part of the world.
		(6 marks)
		(Extra space)



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2 Rocks, Resources and Scenery

Total for this question: 25 marks

2 (a) Study **Figure 3**, on the insert, which shows the distribution of three different types of rock. Draw a line to link **each** of the statements to complete the sentences about the distribution of the three different rock types.

Igneous rocks are

found in a band from the south west through central England.

Sedimentary rocks are

found in upland Britain.

Metamorphic rocks are

found in southern and eastern England

Igneous and metamorphic rocks are

scattered areas of south west England

(3 marks)

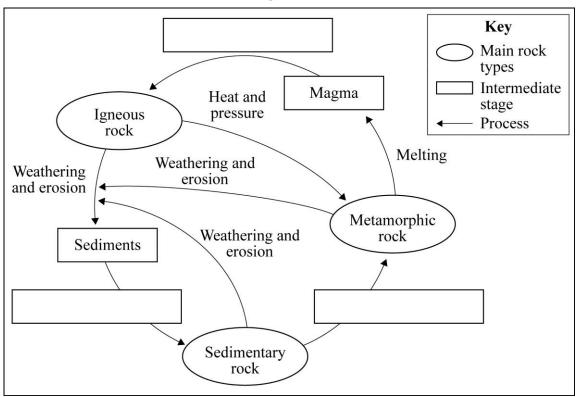
Question 2 continues on the next page



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2 (b) Study Figure 4 which partly shows 'the rock cycle'.

Figure 4



Reproduced with the permission of Nelson Thornes Ltd from Geoactive Online Series 18 (2006-2007).

compaction

cooling

2 (b) (i) Complete the boxes in **Figure 4** to show the missing labels. Choose the correct words from the list below.

expansion

			deposition	heat and pressure	melting	(3 marks)
2	(b)	(ii)	What is meant by 'wea	athering'?		
						(2 marks)



Paper 1 Foundation Tier

2	(b)	(iii) How is weathering important to the rock cycle?	
		(2 mar	
		(2 mai	no)
2	(c)	Figure 5 , on the insert, shows Haytor, Dartmoor. Figure 6 is a black and white photocopy of Figure 5 .	€
		On Figure 6 , mark with an arrow and label:	
2	(c)	(i) three characteristics of the tor; (3 mar.	ks)
2	(c)	(ii) two features of the surrounding area. (2 mar.	ks)

Figure 6





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tion of granite tors.	(iii)	(c)	2
(4 marks)			



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2	(d)	Using a case study of a rock type you have studied, describe a variety of disadvantages resulting from tourism.
		(6 marks)
		(Extra space)
		(LXII a Space)

| _

25

Turn over for the next question



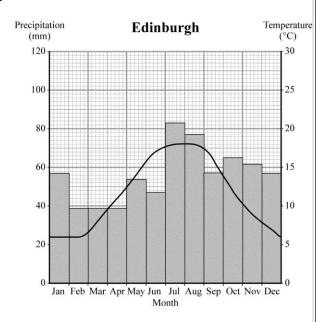
3 **Challenge of Weather and Climate**

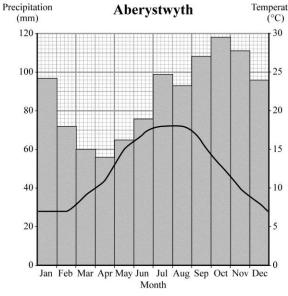
Total for this question: 25 marks

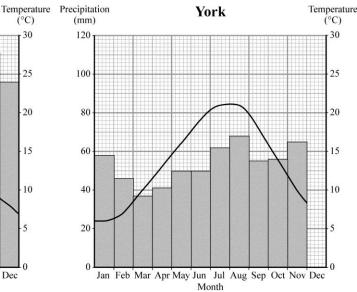
Study Figure 7 which shows climate graphs for three cities in the United 3 Kingdom.

Figure 7











Paper 1 Foundation Tier

3	(a)	(i)	Complete the	climate graph for	York by adding t	he following figures
---	-----	-----	--------------	-------------------	------------------	----------------------

Month	Temperature (°C)	Precipitation (mm)		
December	7	50		

(2 marks)

3	(a)	(ii)	Complete the following sentences by adding the correct city.	Choose the
			correct city from the list below.	

			Aberystwyth	Edinburgh	York
			The wettest city in October	is	
			The warmest city between	June and August is	
			has the	smallest temperature ra	nge. (3 marks)
3	(a)	(iii)	Suggest why York's annua Aberystwyth is 1051mm.	ll precipitation total is 52	9mm, whilst the total for
					(2 marks)
3	(a)	(iv)	Suggest why Edinburgh's to between April and Septem		lower than that of York
					(2 marks)



3	(b)	_	re 8 , on the insert, is a newspaper extract describing floods in Sheffield in 2007.
3	(b)	(i)	Give two pieces of evidence that suggest Sheffield experienced extreme weather conditions before the flood.
			1
			2
			(2 marks _j
3	(b)	(ii)	Describe the different ways in which people's lives were affected by the extreme weather in Sheffield in June 2007.
			(4 marks)
			(Extra space)



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(4 marks)

3	(c)	Figu	re 9, on the insert, is	a satellite ima	ge of Hurrican	e Katrina in August 2005.
3	(c)	(i)	Complete the follow spaces provided. C	•	, ,	e correct word(s) in the elist below.
			clockwise	eye	sea	north west
			anticlockwise	land	eye wall	north east
			Feature X is the			
			Hurricane Katrina is	over		
			Hurricane Katrina is	s spinning		
			Hurricane Katrina is	s moving in a		direction.

Question 3 continues on the next page



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3	(c)	(ii)	Using a case study of a tropical revolving storm hurricane that you have studied, describe its economic and social effects.
			(6 marks)
			(Extra space)



Paper 1 Foundation Tier

4 Living World

Total for this question: 25 marks

4 (a) Study **Figure 10** which shows a hedgerow, an example of a small-scale ecosystem.

Figure 10



4	(a)	(i)	State a link between each of the following.
			The bird and the hedgerow
			The soil and the hedgerow.
			(2 marks)

Question 4 continues on the next page



Paper 1 Foundation Tier

4	(a)	(ii)	Suggest how this small-scale ecosystem would be following.	oe affected by e	ach of the
			A really warm and wet summer		
			People.		
					(4 marks)
4	(b)	(i)	Tick the correct box to show whether each of the about the tropical rainforest is True or False .	e following state	, ,
				_	
				True	False
			There are 5 layers of vegetation in the forest.	True	False
			There are 5 layers of vegetation in the forest. The tallest trees are called emergents.	True	False
				True	False
			The tallest trees are called emergents.		
			The tallest trees are called emergents. Little vegetation grows on the forest floor.		
			The tallest trees are called emergents. Little vegetation grows on the forest floor.		
			The tallest trees are called emergents. Little vegetation grows on the forest floor.		
			The tallest trees are called emergents. Little vegetation grows on the forest floor.		(4 marks)
			The tallest trees are called emergents. Little vegetation grows on the forest floor.		



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4	(b)	(ii)	Figure 11, on the insert, shows two ways, A and B , in which the vegetation
•	(5)	(")	of the tropical rainforest has adapted to its environment.
			For both A and B , describe how the vegetation has adapted to its environment.
			Α
			В
			(4 marks)
4	(c)	(i)	Give two causes of deforestation.
			1
			2
			(1 mark)
			Question 4 continues on the next page

Barcode

4	(c)	(ii)	Describe the effects of deforestation on the environment.
			(4 marks)
			(Extra space)



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4	(c)	(iii)	Describe how ecotourism can lead to sustainable development in a tropical rainforest.
			(6 marks)
			(6 marks) (Extra space)

25

END OF SECTION A

Turn over for Section B



SECTION B

Answer at least **one** question, but **not more than two** questions in this section. Use your case studies to support your answers where appropriate.

5	Wate	er on	the Land Total for this question: 25 marks
5	(a)		y Figure 12 , on the insert, a 1:50 000 Ordnance Survey map extract of castle.
5	(a)	(i)	What happens at X along the course of the River Valency?
			(1 mark)
5	(a)	(ii)	A 'waterfall' is found at Y . Give the map evidence for this landform, apart from the label.
			(2 marks)
5	(a)	(iii)	Grid squares 1290 and 1291 are outlined on Figure 12 . Describe the channel and the valley of the River Valency in these grid squares.
			(3 marks)

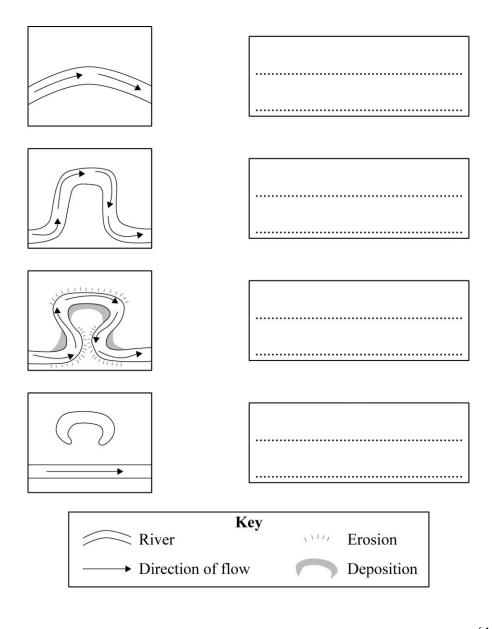


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5 (b) **Figure 13** shows the stages in the formation of a river landform in its lower course.

Add a sentence in each box to explain the formation of the landform.

Figure 13



(4 marks)

Question 5 continues on the next page



Paper 1 Foundation Tier

5	(c)	Stud	y Figure 12 , the Ordnance Survey map extract of Boscastle.
5	(c)	(i)	Boscastle experienced a flash flood on 16 August 2004.
			Give the meaning of the term 'flash flood'.
			(2 marks)
5	(c)	(ii)	Using Figure 12 , the Ordnance Survey map of Boscastle, describe how each of the following contributed to the flooding.
			The relief (height and shape of the land) in the Valency valley in grid square (1091).
			The settlement of Boscastle in grid square (0990).
			/4 manuta
			(4 marks)



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5	(c)	(iii)	Study Figure 14 , on the insert, which shows part of Boscastle on 17 August 2004. Three effects of flooding are arrowed and marked X , Y and Z on Fi Write labels for X , Y and Z to describe the effects of flooding in Bos	scastle.
			z	
				(3 marks)
5	(d)	Desc	cribe how hard engineering methods are used to control flooding.	
		(Fyt	ra space)((6 marks)
		(/ _ /	, a space,	



25

6	lce d	on the	Land Total for this question: 25 marks
6	(a)		ly Figure 15 , on the insert, a 1:25 000 Ordnance Survey map extract of rellyn, Lake District.
6	(a)	(i)	Give the direction from Glenridding (3617) to Red Tarn (3415).
			(1 mark)
6	(a)	(ii)	Helvellyn in found at X on Figure 15 . Give the 6-figure grid reference for Helvellyn.
			(1 mark)
6	(a)	(iii)	Measure the distance along the footpath from Glenridding Youth Hostel (366174) to Red Tarn (350154).
			km (1 mark)
6	(a)	(iv)	Grid square 3415 is outlined on Figure 15 . Describe the glacial landforms found in grid square 3415.
			(4 marks)
			(Extra space)



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6	(b)	(i)	Figure 16 on the	incort is a photog	ronh of a glacial land	lform.
6	(b)	(i)	rigure 16 on the	insert is a priotog	raph of a glacial land	MOITH.
			• •		ndform is and describ arrows X and Y point	
						(3 marks)
6	(b)	(ii)	·	• .	explain how the landfords from the list be	•
			truncated	valley floor	whole valley	interlocking
			glacial trough	abrasion	weathering	corrie
			Before the Ice Ag	e, a river flowed a	along the valley. As	it got colder, ice
			occupied the		It eroded the	spurs
			by plucking and		. The V shape of th	o rivor vallov
			by plucking and .		. The v shape of the	le liver valley
			is changed into a			(4 marks)

Question 6 continues on the next page



Paper 1 Foundation Tier

6	(c)		dy Figure 17 , on the insert, a photo of t c in Canada.	he Athabaso	ca Glacier in Ba	nff National
6	(c)	(i)	Tick the correct box to show whether about the glacier is True or False .	each of the	following stater	ments
				True	Fals e	
			The glacier has retreated during the twentieth century/since 1992.			
			Snow is being added faster than it is melting.			
			Ground moraine is shown on the photograph.			
						(3 marks)
6	(c)	(ii)	Describe two different attractions of a and ice for tourists.	a landscape	that is covered	by snow
						(2 marks)



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6	(d)	Using a case study of an area that is covered by snow and ice, describe the environmental impact of tourism.
		(6 marks)
		(Extra space)

Turn over for the next question

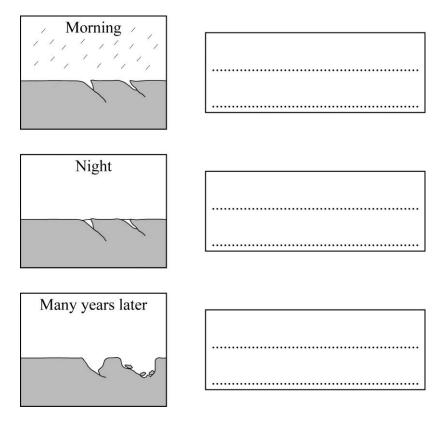


7 The Coastal Zone

Total for this question: 25 marks

7 (a) Figure 18 shows how freeze thaw weathering occurs.Add a sentence in each box to explain freeze thaw weathering.

Figure 18



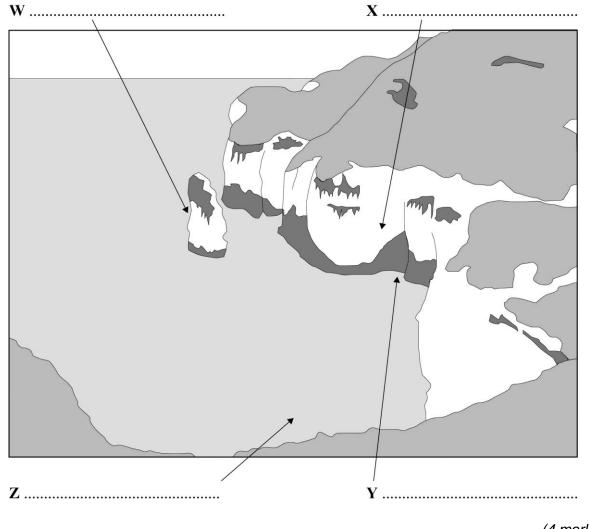
(3 marks)



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7 (b) (i) Study **Figure 19**, on the insert, which shows the coastal zone at Flamborough, North Yorkshire. **Figure 20** is a sketch of **Figure 19**. On **Figure 20**, label features **W**, **X**, **Y** and **Z**.

Figure 20



(4 marks)

7	(b)	(ii)	Mass movement is common in the area shown in Figure 19 . What is meant by the term mass movement?
			(2 marks)



7	(c)		y Figure 21 , on the insert, a 1:50 000 Ordnance Survey map extract of pleton on the Holderness coast in Yorkshire.
7	(c)	(i)	X shows the position of the coastline in 1910. How much land has been lost since then?
			(1 mark
7	(c)	(ii)	Grid squares 2243 and 2244 are outlined on Figure 21.
			Describe the physical and human features of the coastline in these grid squares.
			(3 marks



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7	(c)	(iii)	Using Figure 21 , describe the effects of continued coastal erosion on the settlement and residents of Mappleton.
			settlement and residents of Mappleton. (4 marks)
7	(c)	(iv)	A rock groyne has been built at Y on Figure 21. Longshore drift occurs mainly south eastwards. How will the groyne affect the process of longshore drift in this area? (2 marks) Question 7 continues on the next page

Barcode

7	(d)	For a coastal environment that you have studied, describe the environment and explain why it provides a suitable habitat for the species living there.
		(6 marks)
		(Extra space)

END OF QUESTIONS



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