

General Certificate of Secondary Education 2012

# Geography

Unit 1: Understanding Our Natural World

**Foundation Tier** 

[GGG11]



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THURSDAY 14 JUNE, MORNING



1 hour 30 minutes.

## INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.Write your answers in the spaces provided in this question paper.Answer all three questions.You are provided with an O.S. map for use with Question 1.Do not write your answers on this map.

## INFORMATION FOR CANDIDATES

The total mark for this paper is 100. Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question. Quality of written communication will be assessed in questions 1(h)(ii), 2(e) and 3(f).



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Question Number	Marks		
1			
2			
3			
Total Marks			

		Theme	A: The Dynar	nic Landscape		Examiner Only Marks Remark
(a)	Stu and	dy the Ordnance answer the que	e Survey extracestions which for	ct of Poole and Swa ollow.	anage, England	
	(i)	State the heigh 0177.	t of the land at	its highest point in	grid square	
			_		metres [1]	
	(ii)	State the straig Swanage, (GR (GR 038871).	ht line distance 036787) to the	e from the Visitor Ce hotel at the end of	entre at the spit	
					km [2]	
	(iii)	Underline the d Heritage Site at	irection of Old t Swanage (GF	Harry (GR 0582) fr R 0378).	om the World	
		north west	north east	south west	south east [1]	
	(iv)	What method is north of Swana	s used to prote ge (GR 0379)?	ct the beach from lo	ongshore drift	
					[1]	
	(v)	State the mean	ing of the term	longshore drift.		
					[2]	
	(vi)	Many holidaym to their location	akers visit this s. One has be	area. Match the fol en completed for yc	lowing attractions	
		0387		Durlston Country P	Park	
		9979		Nature reserve		
		0288		Walks		
		0277		Viewpoint		
		0187		Museum	[4]	

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(b) Old Harry (GR 0582) is an example of a stack. Study **Fig. 1** which shows the formation of a stack. Answer the question which follows.



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Fig. 1

Complete **Table 1** by matching the correct statement to the number in **Fig. 1**. This will explain the formation of a stack. One has been completed for you.

Table '
---------

Statement	Number in Fig. 1
If the cave is eroded right through the headland an arch is formed.	
The weather and sea attack the stack until only a stump is left.	5
Cracks show weaknesses in rock.	
The arch will eventually collapse as it is widened by the sea leaving a stack.	
As the crack is eroded further a cave is formed.	
	[4]

Marks Remark

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[Turn over

(c)	<text></text>	Examiner Only Marks Remark
	© Gordon Smith	
	Fig. 2	
	<ul> <li>(i) State one human activity shown at the coast in Fig. 2.</li> <li>[1]</li> <li>(ii) Describe the conflicting nature of one human activity in a coastal area. Refer to a place in your answer.</li> </ul>	
	[3]	

(d) Attempts have been made to protect some coastal areas from erosion. Select **one** method from the list below and explain how it works.

sea wall	gabions	beach nourishme	ent	
Method				
How it works				
			[2]	
			[3]	
Study Fig. 3 below w	hich shows a riv	ver feature. Answer th	e questions	
which follow.			- 1	
	Contraction of the second seco			
		<b>、</b>		
	$\sim$			
	Inside of Bend			
		Outside of Bend		
Faster				
lest C	urrent			
a the second sec				
		Source: I	Principal Examiner	
	Fig. 3			
(i) Name the feature list below.	e shown in <b>Fig</b> .	3. Underline your ans	wer in the	
Meande	er Delta	a Waterfall	[1]	

Examiner Only

dis	solves	hydraulio	c action	traction	breaks	
		abrasion	vertical	load		
1			is caused by	rock fragmen	ts hitting	
i	against th	ne bed and ba	nks.			
2. 3	Solution i	s the process	by which rive	er water reacts	s chemically	
,	with the r	ocks and		them.		
3. <sup>-</sup>	The river'	S	is	s the solid mat	erial carried	
I	by the rive	er.				
<b>1</b> .	Large roc	ks are rolled a	along the rive	er bed by the p	process	
(	of					
5.			erosion is wl	hen the river e	rodes	
(	downward	ds into its bed.			[5]	
State	e the mea	aning of the ter	rm <b>depositio</b>	on.		
					[2]	
					[2]	



(ii) Explain one effect on the drainage basin cycle if the vegetation Examiner Only Marks Remark was removed. [3] (g) Study Fig. 5 which shows a drainage basin which experienced flooding in Co. Tyrone. Answer the questions which follow. Bessy Hill Ν 423m Mullaghcarn 542m STRULE FAIRY WATER BLACKWATER O Drumquin Carrickmore Omagh CAMOWEN Tappaghan Sixmilecross 339m O CLOUG OWEN REAGH Dromore Fintona Key = mountain Kilometres 0 5 10 © Higher Ground by Derek Polley, published by Colourpoint books, 2001. ISBN 9781898392521 Fig. 5 State the name of the highest mountain in the drainage basin as (i) shown in Fig. 5. [1]

	(ii)	Using <b>Fig. 5</b> , state the name of the to form the River Strule.	e two rivers which join at Omagh	Examiner Only Marks Remark
			[1]	
	(iii)	State fully <b>one</b> possible human ca	use of flooding.	
			[3]	
(h)	Stuo Ans	dy <b>Fig. 6</b> and <b>Fig. 7</b> which show dif wer the questions which follow.	ferent ways to prevent flooding.	
		Dam	Afforestation	
		<image/> <image/>	<image/> <image/>	
		Fig. 6	Fig. 7	
	(i)	Indicate the type of engineering sh by writing either <b>Hard</b> or <b>Soft</b> engi	nown in both <b>Fig. 6</b> and <b>Fig. 7</b> Ineering.	
		Dam	engineering	
		Afforestation	engineering [2]	

River	[1]	
Method		
	[3]	

## Theme B: Our Changing Weather and Climate

2 (a) Study Fig. 8 which shows a weather system over the British Isles on a day in July 2009. Answer the following questions.



(1)	Complete each of the following to describe this weather i	nap.		Examin	er Only
				Marks	Remark
	Pressure at X	mb			
	Wind direction at Weymouth				
	Cloud cover at Weymouth c	oktas	[3]		
				[Turı	n over

(ii) The weather system in Fig. 8 is an anticyclone. Explain how this Examiner Only weather system caused hot, sunny weather which allowed people Marks Remark to enjoy the beach in Weymouth on this summer day as shown in Fig. 9. Source: Alistair Coleman / Duckorange Fig. 9 [3] (b) (i) Complete **Table 3** by naming **two** instruments used to measure the following elements of the weather. Table 3 Element Instrument Rainfall Rain gauge Temperature Pressure [2] (ii) Weather stations on land collect data which is used to create a weather forecast. Name two other sources of data which can be used to create a weather forecast. 1. \_\_\_\_\_ [2] 2.

(c) Depressions are weather systems which can have both positive and negative effects on the people and economy of places. Complete Table 4 below to show whether the effects listed are positive or negative. One has been completed for you.

Га	b	e	4

Positive	Effects of Depressions	Negative
	Cold front brings long period of heavy rain which stops a cycle race	
	Strong winds mean the Belfast – Stranraer ferry cannot sail	
	Light summer rainfall helps wheat crop to grow	
	Rain at the warm front in summer avoids a hosepipe ban in Southern England	
		[3

(d) Study Fig. 10 which shows two causes of climate change. Answer the question which follows.



Examiner Only

Marks Remark

(e) Name a country you have studied and describe two possible effects Examiner Only (one positive and one negative) of climate change on this country. Marks Remark Name of country \_\_\_\_\_ [1] Positive effect [3] Negative effect [3] It is difficult to deal with climate change. Describe **one** sustainable (f) solution to the problem of climate change. \_\_\_\_\_ [3]











Describe the world distribution of volcanoes shown on the map. Refer to named places in your answer.

[4]

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- (b) Study Fig. 12 which shows Slemish Mountain which is a volcanic plug. Answer the question which follows.
- の時間には、「日本」の「日本」では、「日本」 © iStockphoto / Thinkstock Fig. 12 Explain how a volcanic plug such as Slemish Mountain was formed. \_\_\_\_\_ [3] (c) (i) Complete Table 5 below to show one other example of an igneous and a sedimentary rock. Table 5 Igneous Sedimentary Granite Sandstone [2]

# Examiner Only Marks Remark

(ii) Sedimentary rocks are formed over a long period of time. Complete **Table 6** by placing the statements into the correct order to show how sedimentary rocks have been formed. One has been completed for you.

Statement	Order
Sediments are laid down on the sea bed.	2
The layers of sediment are compressed.	
Erosion of land creates small fragments of rock or sediments which are carried into the sea.	
The sediments build up in layers over a long period of time to form sedimentary rock.	
Compression of the layers squeezes out air and water.	
	[4]

(d) Study Fig. 13 which shows a collision plate boundary. Answer the question which follows.



Examiner Only Marks Remark (e) Attempts have been made to manage the impacts of earthquakes. Complete **Table 7** by sorting the following methods of managing earthquakes into short term and long term actions by drawing arrows to the correct box. Two have been completed for you.

Short Term Actions	Action to manage an Earthquake	Long Term Actions
	set up tents to shelter earthquake victims	
	build far away from landfill or soft ground	
	set up a tsunami warning system	
•	provide clean drinking water	
	practise earthquake drills	
	have strict building codes to strengthen buildings	
t		[4

_			_
Та	bl	е	7

Examiner Only

Marks Remark

(f) Earthquakes may occur far from plate boundaries. Name an earthquake in the British Isles which you have studied. Outline the cause of this earthquake and describe and explain fully **one** impact this earthquake had.

Name of Earthquake	[1]
Cause	
	[2]
Import	[2]
Impact	
	[3]

## THIS IS THE END OF THE QUESTION PAPER

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