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**General Certificate of Secondary Education** 2013

# Geography

Unit 1: **Understanding Our Natural World Foundation Tier** [GGG11]



**TUESDAY 4 JUNE, AFTERNOON** 

## TIME

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.

### **INFORMATION FOR CANDIDATES**

The total mark for this paper is 108.

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 Question 3(d)(ii).

Spelling, punctuation and the accurate use of grammar will be assessed in questions 1(d) and 1(f)(ii).

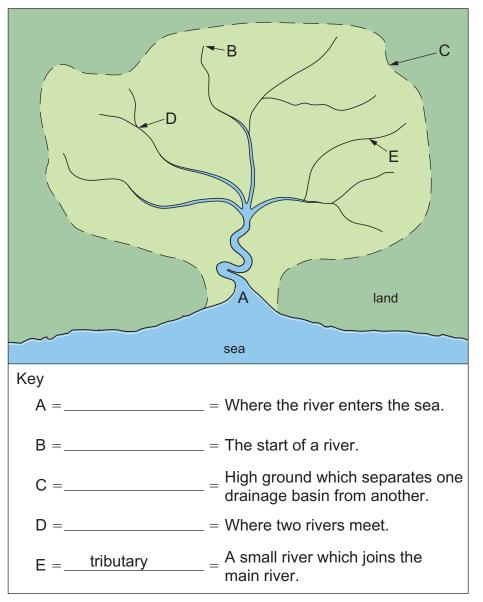
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For Examiner's use only			
Question Number	Marks		
1			
2			
3			

Total	
Marks	

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1 (a) Study Fig. 1 which shows a drainage basin. Answer the questions which follow.



Source: Principal Examiner

Fig. 1

(i) Complete the key for **Fig. 1** by labelling features A–D. Choose your answers from the list below. One has been completed for you.

flooding	j confl	uence	watershed	
	mouth	source		[4]

(ii) Draw arrows to sort the following parts of a drainage basin as stores or transfers (flows). One has been completed for you.

Examiner Only		
Marks	Remark	

[3]

STORE -	Surface	TRANSFER (FLOW)
	Soil	
	Percolation	
	Interception	

(iii) State the meaning of the term infiltration.

		[2]

(b) (i) State two reasons why a river might deposit material.

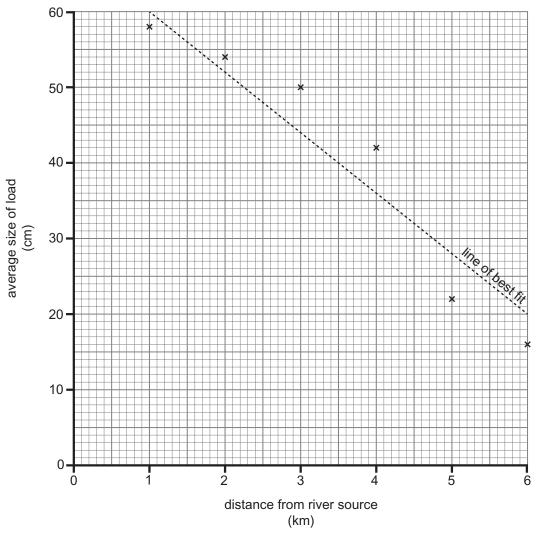
1.			

(ii) Name any two features which are made by rivers.

1.		

(c) Study Fig. 2 which shows how load size varies along the Colin River in Belfast. Answer the questions which follow.





Source: Principal Examiner

Fig. 2

	(i)		oad size varies	ach sentence below along the Colin Riv		Examin Marks	er Only Remark
		• The load is th	e <u>material</u> / w	ater carried by a riv	/er.		
		• As distance in increases /		ne source load size			
		• The largest av	verage size of lo	oad in this river is 5	54 / 58 cm.		
		• The smallest source.	load measured	was found 5 / 6 k	m from the		
		<ul> <li>Load size red source.</li> </ul>	uces rapidly bet	ween 1-2 / 4-5			
					[4]		
	(ii)	Underline the <b>tw</b> explain the varia		ion in the list below <b>J. 2</b> .	which could		
lyd	Iraul	ic Pressure	Abrasion	Weathering	Attrition [2]		
(d)	and nan Nar	l explain <b>one</b> phy ned river.	rsical and <b>one</b> h	h Isles you have st uman cause of a flo	ood on your		
	Hur	man cause of the	flood				
					[6]		
		Spel	ling, punctuation	n and accurate use	of grammar [4]		

(e) Coasts are shaped by waves. Underline the two main types of wave in the list below.

> Constructive Open **Destructive** Flat [2]

**Examiner Only** 

(f) Study Fig. 3 which shows a labelled photograph of a coastal spit in Alaska called Homer Spit. Answer the questions which follow.



Source: Alaska ShoreZone Program NOAA/NMFS/AKFSC; Courtesy of Mandy Lindeberg, NOAA/NMFS/AKFSC

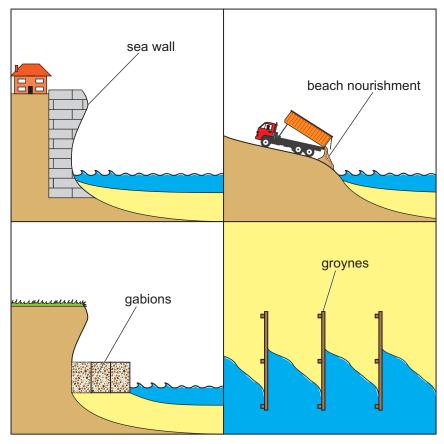
Fig. 3

(i) Identify the three land uses (X, Y and Z) shown in Fig. 3. Choose your answers from the list below.

	Residential	Industry	Transport	Tourism	
<b>X</b> _					
<b>Y</b> _					
<b>Z</b> _					[3]

Examiner O
Marks Rei

(g) Study Fig. 4 which shows four methods of coastal defence. Answer the questions which follow.



Source: Principal Examiner

Fig. 4

(i)	Choose two of the coastal defences named in Fig. 4 and explain
	how each works.

1	
	[3]
0	
2	

[3]

	(ii)	State <b>two</b> reasons why an area might need coastal defences.		Examin	
		1		Marks	Remark
		2	[2]		
	(iii)	Suggest why beach nourishment might encourage tourism.			
			[2]		
(h)	stra	ne an area in the British Isles that has a coastal management tegy. Explain how well <b>one</b> method used to protect the coast the long term.	iere		
	Are	a with coastal management	_ [1]		
	Hov	v well your chosen method could last in the long term.			
			[3]		

#### Theme B: Our Changing Weather and Climate

Examiner Only

Marks Remark

- 2 (a) Study Fig. 5 which shows a simple weather forecast about an anticyclone that is over Northern Ireland in July. Answer the questions which follow.
  - (i) Draw a line to match up each element of the weather forecast in Fig. 5 with one instrument used to create that part of the forecast.

Weather Forecast		Instruments used to create this forecast
The temperature will be a very warm 28 °C.	•	• WIND VANE
The wind speed will be calm.	•	• THERMOMETER
Warm air will come from a south-easterly direction.	•	• ANEMOMETER
There will be no rain.	•	RAIN GAUGE

[4]

Fig. 5

- (ii) Name **one** other aspect of the weather which can be measured.
- (iii) Underline the air mass which is likely to be responsible for the weather described in Fig. 5.

POLAR CONTINENTAL TROPICAL CONTINENTAL

POLAR MARITIME [1]

iii)	Explain how burning fossil fuels can cause climate change.		Examiner O  Marks Re
v)	Explain <b>one</b> effect climate change might have on a country you have studied.	l	
	Name of country	[1]	
	Effect of climate change		
		[3]	

(c) Study Fig. 6 which shows some cities where international agreements on climate change have been discussed. Answer the questions which follow.





Fig. 6

(i)	Using Fig. 6 state the city where the 2011 international agreement
	on climate change was discussed.

\_\_\_\_\_\_[1]

(ii)	Why is it difficult for countries to work together to deal with climate
	change? You should give <b>two</b> reasons in your answer.

\_\_\_\_\_ [4]

#### Theme C: The Restless Earth

Examiner Only

Marks Remark

3 (a) Study Fig. 7 which shows some rock types. Answer the questions which follow.

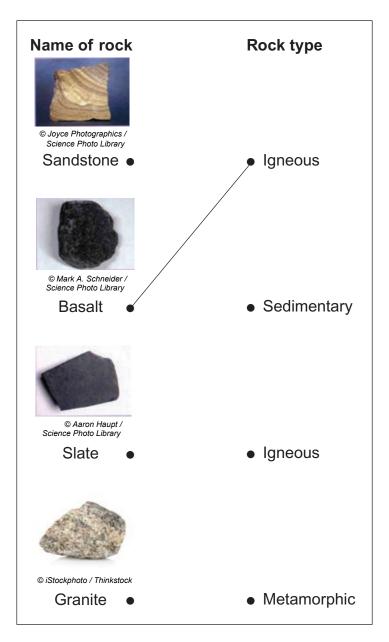


Fig. 7

(i) Complete Fig. 7 by drawing lines to link the name of each rock to its rock type. One has been completed for you. [3]

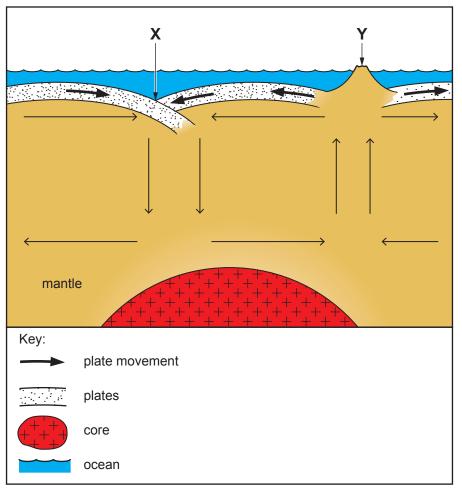
(ii) Number the following statements (1 to 4) in the correct order to explain how basalt is formed. One has been completed for you.

The lava hardens to form Basalt.	
The lava cools quickly and makes small crystals.	
Molten magma rises from the mantle.	
The magma flows out onto the surface as lava.	2

[3]

Examin	er Only
Marks	Remark
[Tur	n over

**(b)** Study **Fig. 8** which shows part of the earth's structure. Answer the questions which follow.



Source: Principal Examiner

[2]

Fig. 8

(i) Name the features X and Y	(i)	Name	the	features	X	and	Y
-------------------------------	-----	------	-----	----------	---	-----	---

X \_\_\_\_\_

Υ\_\_\_\_\_

(ii) Use Fig. 8 to help explain how plates move.

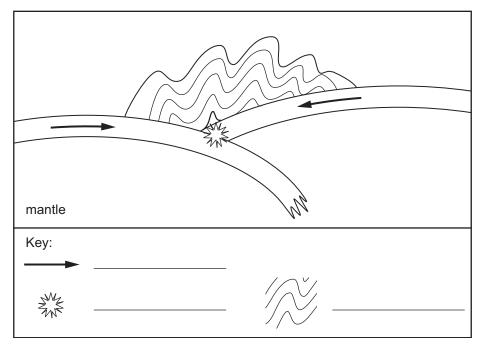
\_\_\_\_\_[3]

(c) Study Fig. 9 which shows how fold mountains such as the Himalayas form. Answer the question which follows.





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Source: Principal Examiner

Fig. 9

Use the following labels to complete the key on **Fig. 9** to show how fold mountains are formed.

Plate movement Fold mountains Earthquake focus [3]

(d) Study Fig. 10 which shows a tsunami. Answer the questions which follow.





© PA

Fig. 10

(i)	State the meaning of the term <b>tsunami</b> .
	[2]
(ii)	Explain why an earthquake occurred in a LEDC which you have studied.
	Name of LEDC [1]
	[3]

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(Questions continue overleaf)

(e) Study Fig. 11 which shows some measures which may be put in place to reduce the number of deaths in an earthquake in a MEDC. Answer the question which follows.



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Make buildings earthquake-proof



© VSTEP - RescueSim

Plan better emergency services

Image removed due to copyright restrictions

Educate people about what to do when an earthquake happens



© Professor T Tullis Improve the prediction of earthquakes

Choose <b>two</b> measures from <b>Fig. 11</b> and explain how each helped reduce the number of deaths in a named earthquake you have stuin a MEDC.		Examine Marks	er Only Remark
Name of earthquake in a MEDC	[1]		
Strategy 1			
Strategy 2			
THIS IS THE END OF THE QUESTION PAPER			





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