

71 Candidate Num

General Certificate of Secondary Education 2013

Geography

Unit 1:
Understanding Our Natural World
Higher Tier
[GGG12]



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).

Spelling, punctuation and the accurate use of grammar will be assessed in questions 1(i) and 2(c)(iii).

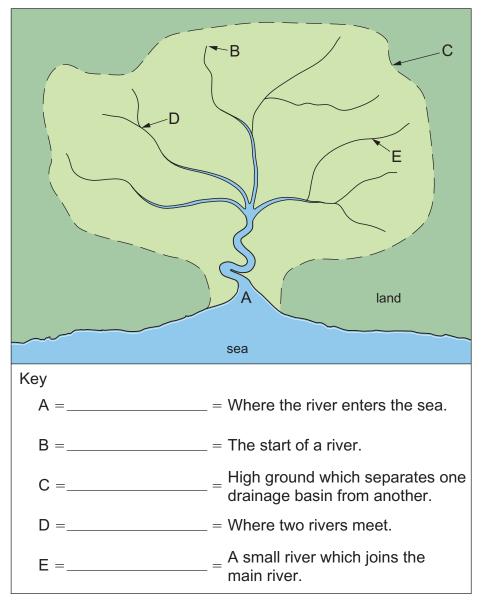


For Examiner's use only			
Question Number	Marks		
1			
2			
3			

Total	
Marks	

937

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–E. [5]
- (ii) Name **two** stores of water within the drainage basin system.

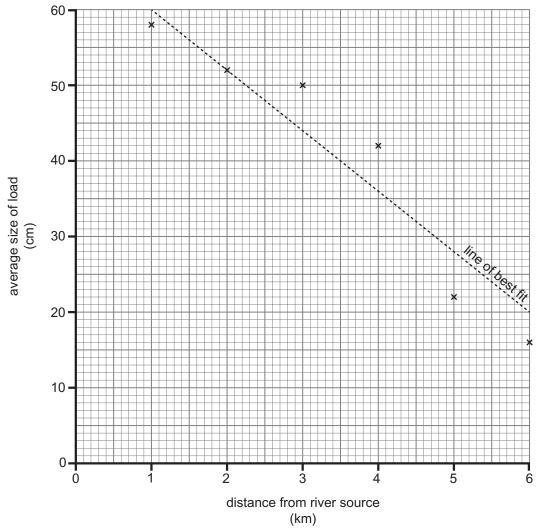
1. _____

2. ______ [2]

		_	
		_	
		,	

(b) 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)

	(ii)	Underline the two types of erosi account for the variation seen in	Examiner Only Marks Remark		
Abrasio	on	Hydraulic Pressure V	Weathering	Attrition	[2]
(c)	(i)	State two reasons why a river m	night deposit ma	aterial.	
		1			
		2			_ [2]
	(ii)	Name two river features which a deposition.	are formed by t	he process of	
		1			
		2			_ [2]
(d)		h reference to a river in the Britis nan causes of a flood on your na		the physical ar	nd
	Nar	me of river			
	Cai	uses of the flood			
					[7]

(e)	Coasts are shaped by waves. State two facts about constructive
	waves.

Examiner Only			
Marks Remark			

______[2]

(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

Identify the **two** land uses (**X** and **Y**) shown in **Fig 3**. Choose your answers from the list below.

	Residential	Industry	Transport	Tourism	
x					
Υ				[2]	

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	[6]			
		'		
Explain the formation of a wave-cut platform.				
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	[8]
Spelling, punctuation and accurate use of grammar	[4]

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(Questions continue overleaf)

Theme B: Our Changing Weather and Climate

Examiner Only			
Marks	Remark		

- 2 (a) Study Fig. 4 which shows a simple weather forecast about an anticyclone that is over Northern Ireland in July. Answer the questions which follow.
 - A. The temperature will be a very warm 28 °C.
 - B. The wind speed will be calm.
 - C. Warm air will come from a south-easterly direction.
 - D. There will be no rain.

Fig. 4

(i) Using **Fig. 4** complete **Table 1** by writing in the names of the instruments that could be used to collect information on each of these elements of the weather forecast.

Table 1

Weather element	Instrument
А	
В	
С	
D	

[4]

(ii)	State the name of the air mass that is most likely to be
	responsible for this weather.

[1]

(iii)	Explain	why	there	will	be	no	rain
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(b) Weather forecasts are created by the Met Office in the U.K. They often rely on satellite images to help create them. Answer the questions which follow.

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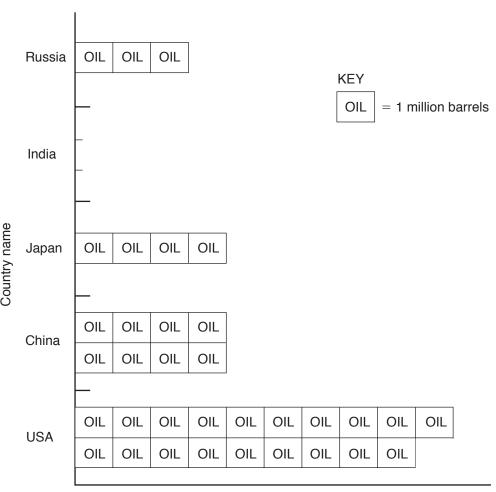


Courtesy: NASA

(i)	Explain how satellites help to create a weather forecast.	
		[3]
(ii)	State the type of satellite which is fixed in the same location in space.	
		[1]

(c) Study Fig. 5 which shows the number of barrels of oil consumed per day in a number of countries. Answer the questions which follow.





Number of barrels of oil consumed per day

Fig. 5

(i) Complete **Fig. 5** by inserting the correct symbol for the number of barrels of oil consumed per day in India.

(ii) State the number of barrels of oil consumed per day in the USA.

_____[1]

	[6]	
Spelling, punctuation and accurate use of grammar		
Spelling, purictuation and accurate use of grantinal	[4]	

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

Examiner Only

Marks Remark



Fig. 6

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

_____ [1]

(ii)	Outline two challenges associated with securing international co-operation to deal with climate change.

_____ [4]

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

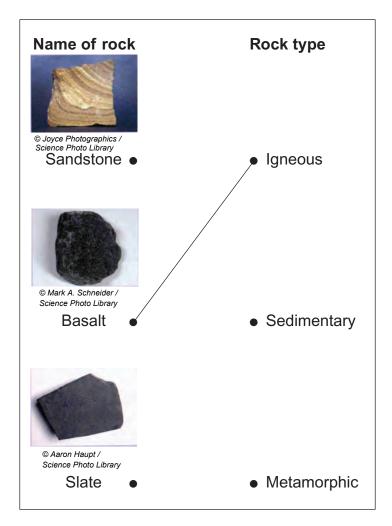
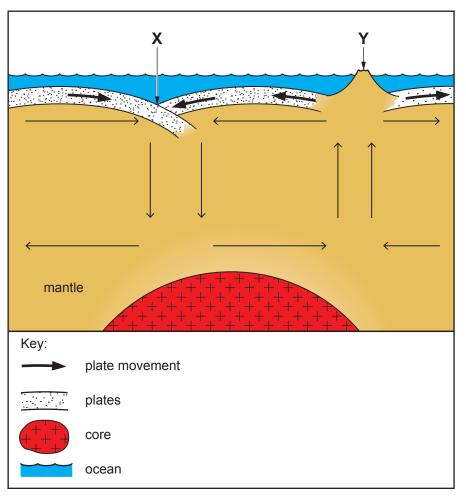


Fig. 7

- (i) Complete **Fig. 7** by matching the name of each rock to its rock type. One has been completed for you. [2]
- (ii) Explain how basalt is formed.

[3]

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



Source: Principal Examiner

Fig. 8

(i) Name the features X and Y.

X _____

Y______[2]

	 			
1)	Use Fig. 8 to help you to explain why plates move.		Exami Marks	nei
		[2]		
		[3]		
i۱	Complete Fig. 9 by drawing in arrows to show the direction of			
	plate movement and mark the likely position of an earthquake			
	focus with X .			
	100db Will A.			
	fold mountains			
	-			
		\neg		
		_		
	`			
		[3]		
	Fig. 9			
Λ	Name this type of plate boundary.			
,	Name this type of plate boundary.			
		[1]		

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

Examiner Only				
Marks	Remark			



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Fig. 10

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

(d)	For an earthquake in a MEDC which you have studied, evaluate the success of the precautions put in place before the earthquake happened. Refer to two precautions in your answer.	ne	Examine Marks I	r Only Remark
	Name of MEDC			
		[6]		
	THIS IS THE END OF THE QUESTION PAPER			

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