



General Certificate of Secondary Education
2013

Centre Number

71

Candidate Number

Geography

Unit 1:
Understanding Our Natural World

Higher Tier

[GGG12]

ML

TUESDAY 4 JUNE, AFTERNOON

TIME

1 hour 30 minutes, plus your additional time allowance.

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)**.

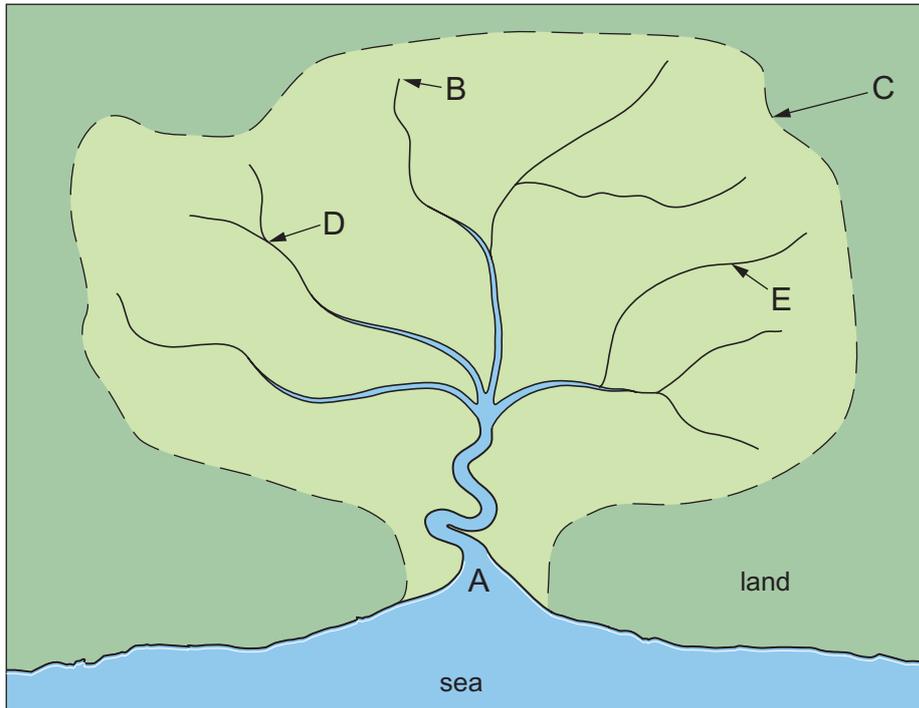
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use only

Question Number	Marks
1	
2	
3	

Total
Marks

Theme A: The Dynamic Landscape

- 1 (a) Look at **Fig. 1**. It shows a drainage basin. Answer the questions which follow.



Key

- A = _____ = Where the river enters the sea.
- B = _____ = The start of a river.
- C = _____ = High ground which separates one drainage basin from another.
- D = _____ = Where two rivers meet.
- E = _____ = A small river which joins the main river.

Source: Principal Examiner

Fig. 1

- (i) Complete the key for **Fig. 1** by labelling features A–E. [5]

- (ii) Name **two** stores of water in the drainage basin system.

1. _____

2. _____ [2]

Examiner Only	
Marks	Remark

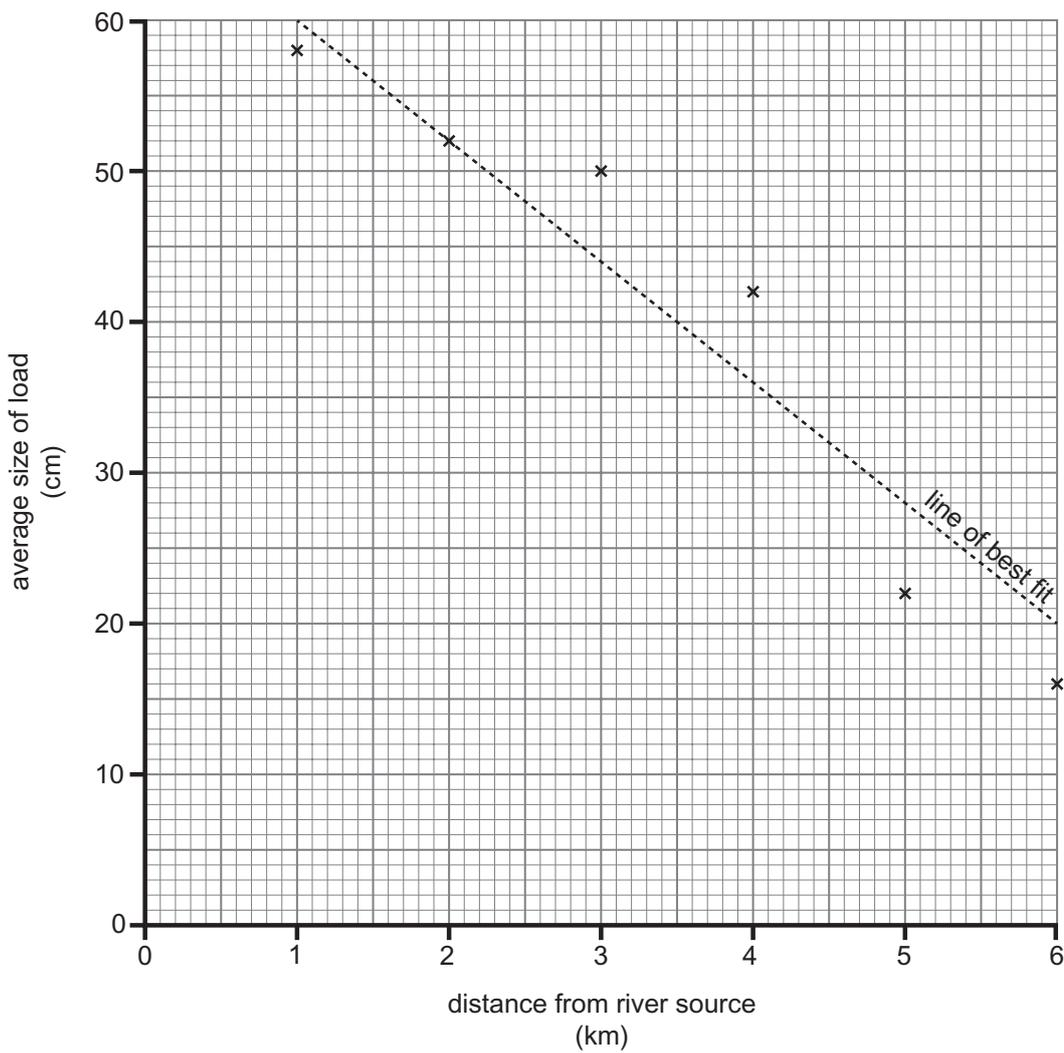
(iii) What does **infiltration** mean?

[2]

Examiner Only	
Marks	Remark

(b) Look at **Fig. 2**. It shows how load size varies along the Colin River in Belfast. Answer the questions which follow.

Examiner Only	
Marks	Remark



Source: Principal Examiner

Fig. 2

(i) Describe how load size varies along the Colin River.

[4]

(e) Coasts are shaped by waves. Write down **two** facts about constructive waves.

[2]

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

Examiner Only	
Marks	Remark



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	_____			
Y	_____			

[2]

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(Questions continue overleaf)

Theme B: Our Changing Weather and Climate

- 2 (a) Look at **Fig. 4**. It shows a simple weather forecast about an anticyclone that is over Northern Ireland in July. Answer the questions which follow.

<p>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.</p>
--

Fig. 4

- (i) Use **Fig. 4** to 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
A	
B	
C	
D	

[4]

- (ii) Write 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.

 _____ [3]

Examiner Only	
Marks	Remark

- (c) Look at **Fig. 5**. It shows the number of barrels of oil consumed per day in a number of countries. Answer the questions which follow.

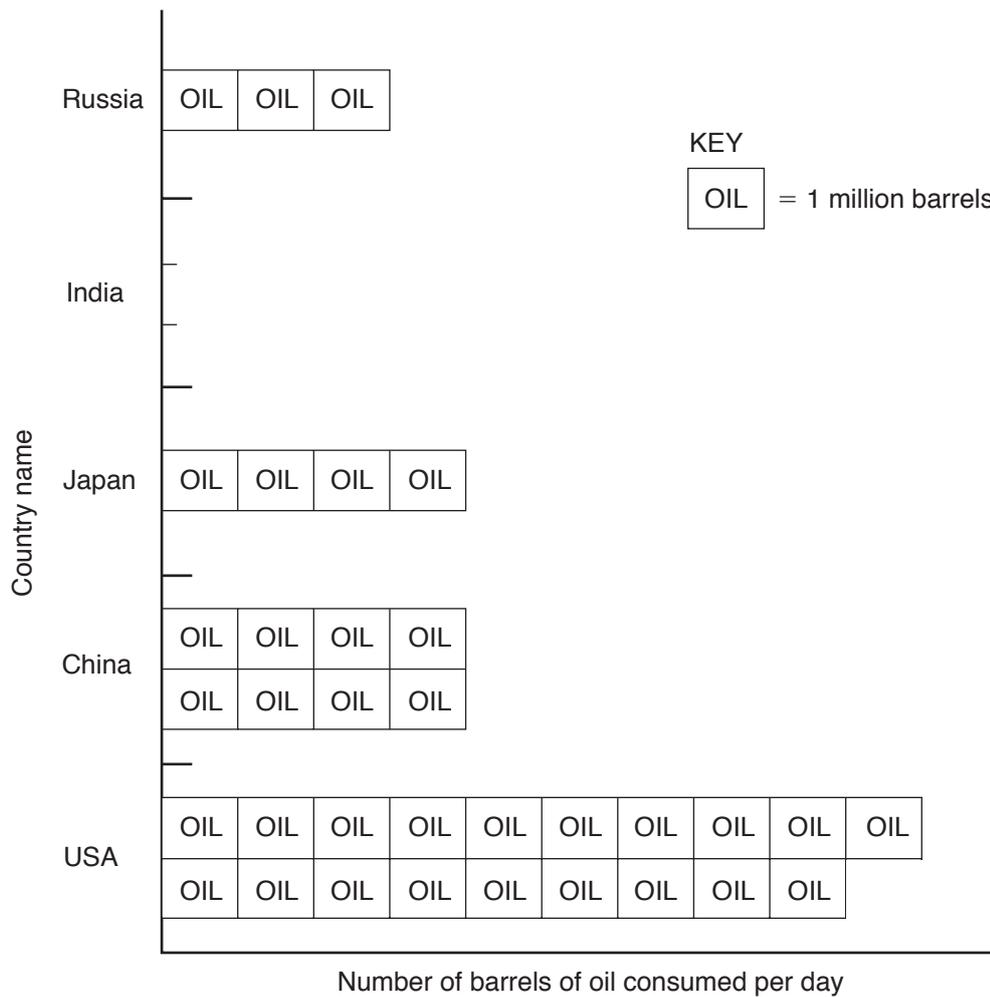


Fig. 5

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

India = 3 million barrels

[1]

- (ii) Write down the number of barrels of oil consumed per day in the USA.

_____ [1]

Examiner Only	
Marks	Remark

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



Fig. 6

- (i) Look at **Fig. 6**. Write down the name of the city where the 2011 international agreement on climate change was discussed.

_____ [1]

- (ii) There are challenges associated with getting international co-operation to deal with climate change. Write briefly about **two** of these challenges.

_____ [4]

Examiner Only	
Marks	Remark

Theme C: The Restless Earth

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

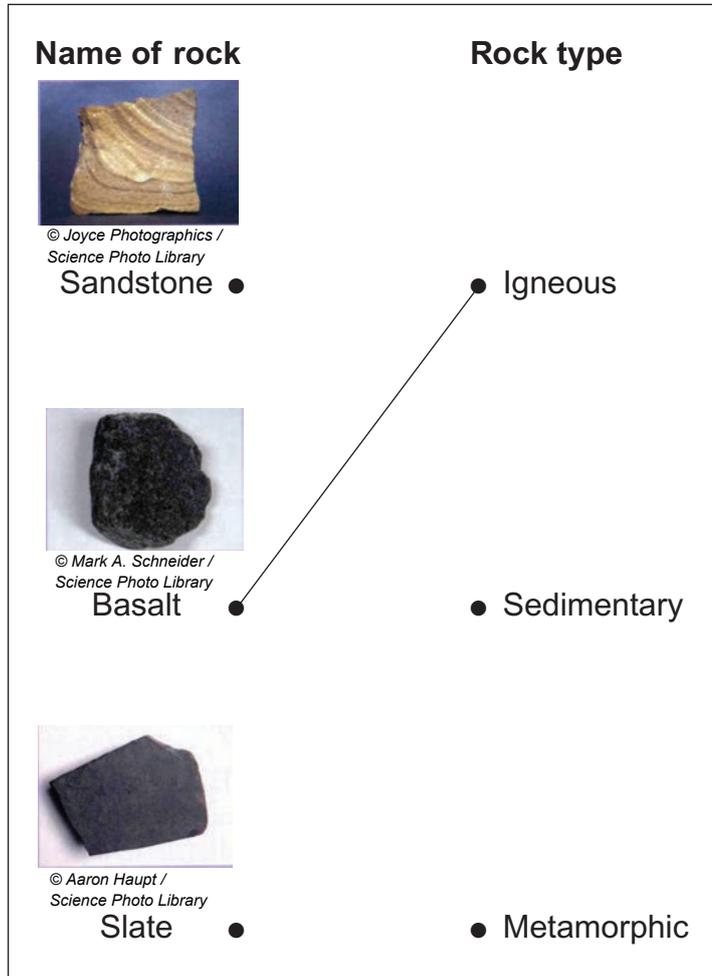


Fig. 7

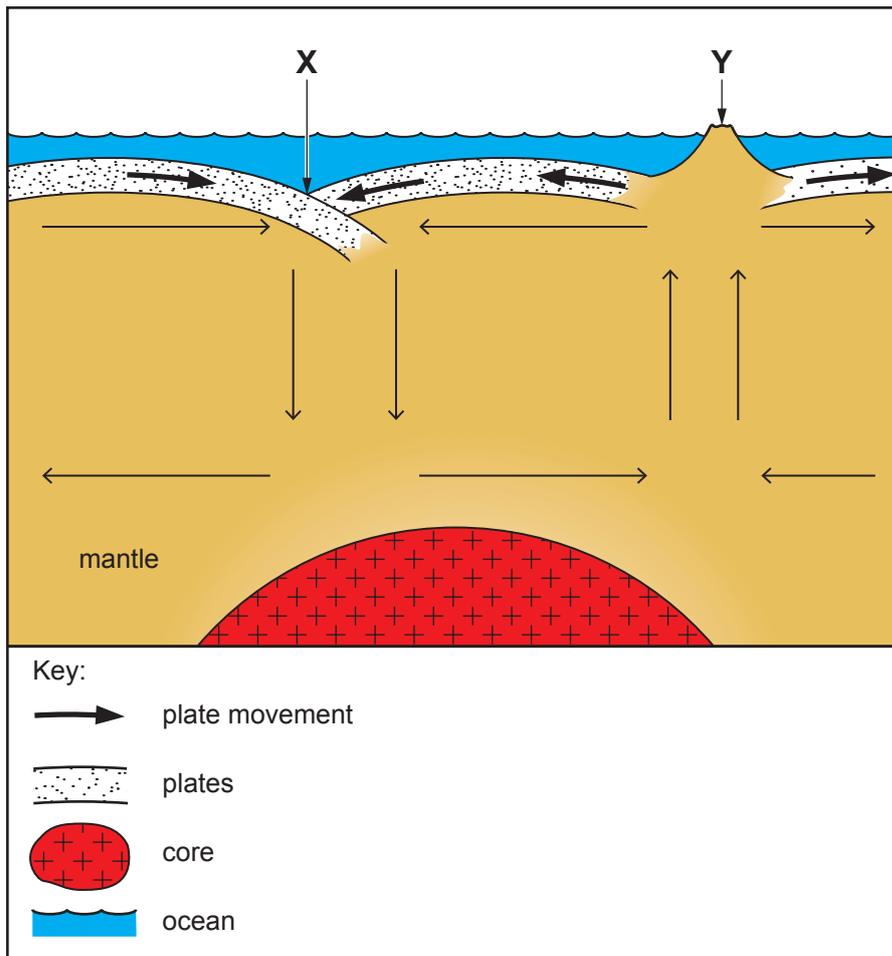
(i) Complete Fig. 7 by matching the name of each rock to its rock type. One has been completed for you. [2]

(ii) Explain how basalt is formed.

[3]

Examiner Only	
Marks	Remark

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



Source: Principal Examiner

Fig. 8

(i) Write the names of features **X** and **Y**.

X _____

Y _____

[2]

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Marks	Remark

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

[3]

(iii) Complete Fig. 9 by drawing arrows to show the direction of plate movement. Mark the likely position of an earthquake focus with X.

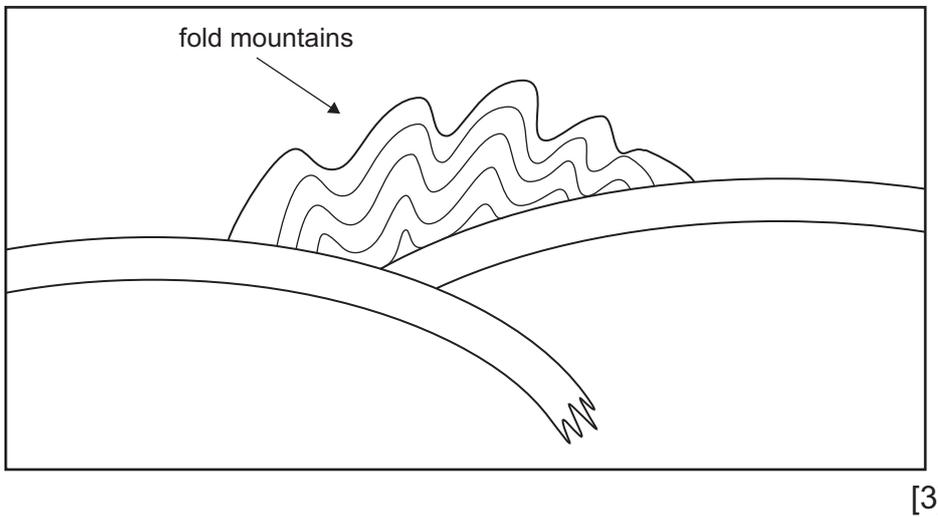


Fig. 9

(iv) Write the name of this type of plate boundary.

[1]

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Marks	Remark

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



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Fig. 10

(i) What does **tsunami** mean?

_____ [2]

(ii) With reference to a **LEDC** which you have studied, explain why an earthquake occurred.

Name of LEDC _____

_____ [3]

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Marks	Remark

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