

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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	CANDIDATE NUMBER	

GEOGRAPHY 0460/13

Paper 1 May/June 2013

1 hour 45 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler

Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces provided.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

DO NOT WRITE ON ANY BARCODES.

Write your answer to each question in the space provided. If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.

Answer three questions.

The Insert contains Photograph A for Question 1, Photograph B for Question 5 and Photograph C for Question 6.

The Insert is **not** required by the Examiner.

Sketch maps and diagrams should be drawn whenever they serve to illustrate an answer.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

For Examiner's Use		
Q1		
Q2		
Q3		
Q4		
Q5		
Q6		
Total		

This document consists of 26 printed pages, 2 blank pages and 1 Insert.



1 (a) Study Fig. 1, which shows the population density of areas around the world.

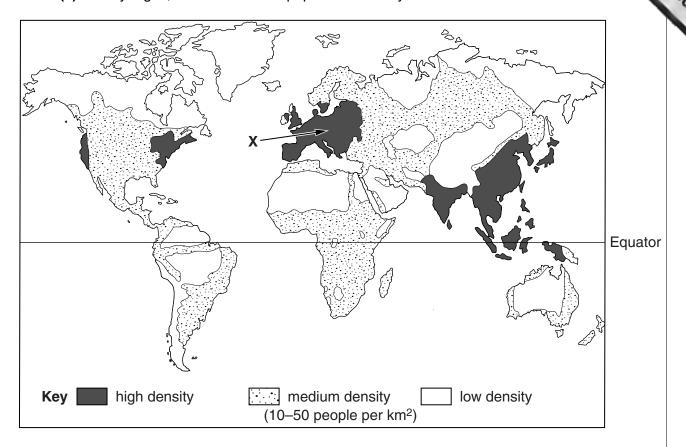


Fig. 1

(i)	Wr	at is meant by a low population density?
		[1]
(ii)	Na	me an area shown on Fig. 1 with a low population density;
	A	that also has an arid (very dry) climate,
	В	that is also in the Southern Hemisphere. [2]

[Turn over

		the state of the s	
		4	
		May 1	
(b)	Stuc	dy Photograph A (Insert), which shows an area which has a low population d	
	(i)	dy Photograph A (Insert), which shows an area which has a low population of Give three different reasons why the area shown in Photograph A has a lopopulation density.	Original
		1	COM
		2	
		3	
		[3]	
	(ii)	Suggest why some people live in areas of low population density, such as the one shown in Photograph A.	
		[5]	

	**	
	5	
;)	For a named country which you have studied, describe the distribution of its popular and draw a labelled sketch map to show this distribution. Name of country	
	Name of country	Tide
		OH

[7]

[Total: 25 marks]

END OF QUESTION 1

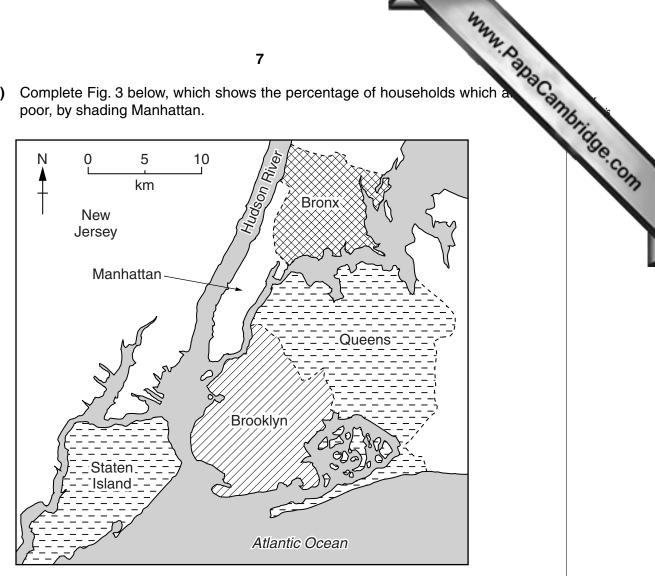
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2 (a) Study Fig. 2, which shows information about households in five boroughs of New York, city in the USA (MEDC).

	Bronx	Brooklyn	Manhattan	Queens	Staten Island
Average (mean) annual income per household (US\$)	46 000	60 000	121 000	67 000	81 000
Percentage of households which are very poor	27	22	17	12	10
Percentage of households with residents not born in the USA	29	38	30	49	21

Fig. 2

(i) Complete Fig. 3 below, which shows the percentage of households which a poor, by shading Manhattan.



Key percentage of households which are very poor

over 25
20 to 25
15 to 19.9
less than 15

Fig. 3

(ii)	Name:

Α	The borough w	vith the highest	average (mean) annual	income per	household;

The borough with the highest percentage of households with residents not born in the USA.

[2]

8	
To what extent is there a relationship between the percentage of households are very poor and the average (mean) annual income per household? Use data from Fig. 2 to support your answer.	bridge
	COM
[3]	
Suggest what problems are faced by people not born in the USA living in large	

(iii)

(iv)

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(b) Study Fig. 4, a headline from a newspaper.

Air pollution in New York reaching crisis levels

Fig. 4

(i)	Describe three different problems caused by air pollution in cities in MEDCs such as New York.
	1
	2
	3
	[3]
(ii)	Explain why there are high levels of air pollution in many cities.
	[5]

	42
	10 A. J. J.
)	For a named urban area which you have studied describe the main features of the following land use zones: Inner city Outer suburbs Rural-urban fringe Name of urban area
	Inner city Outer suburbs Rural-urban fringe
	Name of urban area
	Chosen land use zone
	[7]
	[Total: 25 marks]

END OF QUESTION 2

3 (a) Study Fig. 5, which shows data about the weather recorded on one day at meteorological station.

ON 3	C which cho	11	the weether		MMM. Papal	Cambridge Com
Air Pressure (mb) 1002		Minimum temperature (°C)	Wet bulb temperature (°C)	Dry bulb temperature (°C)	Relative Humidity (%)	age com

Wind direction	Cloud type	Cloud amount (oktas)	Precipitation (mm)
SW	Alto stratus	2	1

Fig. 5

(i)	Calculate the daily range of temperature at the meteorological station.	
	°C	[1]
(ii)	Give an example of a weather recording which was:	
	A measured by an instrument;	
	B obtained by observation.	
		[2]
(iii)	Explain how the relative humidity value of 75% would have been obtained.	
		[3]

	www.	
	12	
(iv)	The thermometers used at the meteorological station are kept in a Stevenser. Explain how this ensures that reliable readings are obtained.	Maria
		26.C
		OH
	[N]	

(b) Study Fig. 6, which shows the climate of Kisangani, Democratic Republic of Coarea of tropical rainforest.

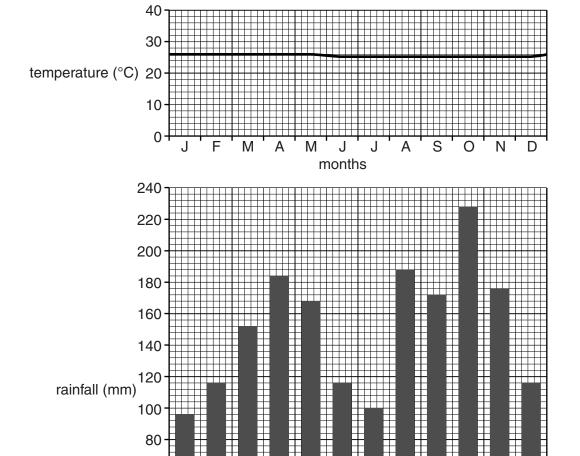


Fig. 6

Α

60

40

20

0

Osing Fig. 6 dilly, describe the main leadures of the climate of Risangani.
[3

months

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	my	
	14	
(ii)	Give reasons for the climate of an area of tropical rainforest such as Kisang.	dr.
	Give reasons for the climate of an area of tropical rainforest such as Kisang	age con
		1
	គ្រោ	

	4	
	Name an area of tropical rainforest which you have studied and explain why defore is taking place there. Name of area	
	Na ₂	
(c)	Name an area of tropical rainforest which you have studied and explain why defore is taking place there.	76.
	Name of area	Tage
		100
)
	[7]	
	[Total: 25 marks]	

END OF QUESTION 3

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(a) Study Fig. 7, which shows major plates and zones of tectonic activity.

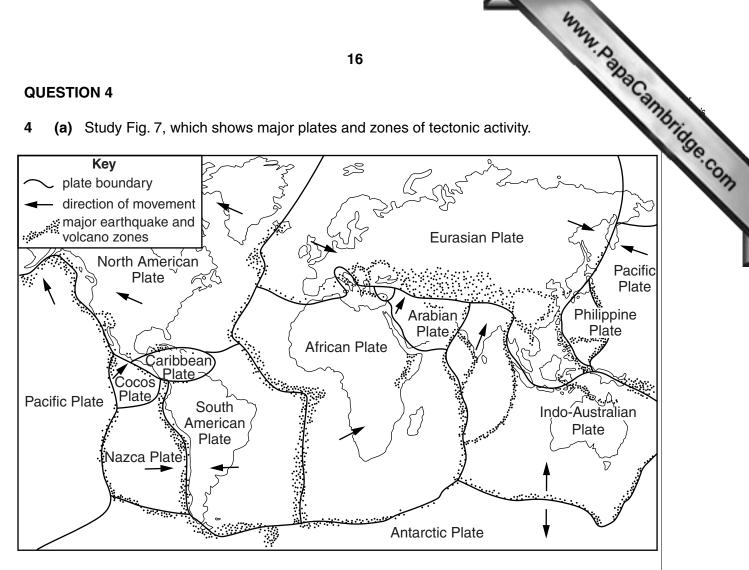


Fig. 7

(1)	vvr	nat is meant by tectonic activity?
		[1]
(ii)		e following processes take place at different plate boundaries shown on Fig. 7. reach process name two plates on a boundary where the process is occurring.
	A	subduction
	В	plates moving apart.
		[2]

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www.papaCambridge.com (b) Study Fig. 8, which shows information about an earthquake in Los Angele (MEDC). Golden State Highway blocked by collapse 0 SAN GABRIEL MOUNTAINS km Sylmar: whole streets on fire SANTA SUSANA MOUNTAINS Santa Monica Bridge collapses on USA's busiest highway Santa monica mountains Wood-frame apartment block housing mainly students, collapses killing 14. Buildings in shopping centre collapse Fig. 8 Identify three different types of impact of the earthquake shown on Fig. 8.

	19	
i)	Explain why the impacts of earthquakes of similar intensity are likely to be MEDCs such as the USA than in LEDCs.	Mr.
		age.
	[5]	
stu	plain the causes of an earthquake which occurred in a named area which you have died.	
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END OF QUESTION 4

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5 (a) Study Fig. 9, which shows information about a sugar refinery in Europe.

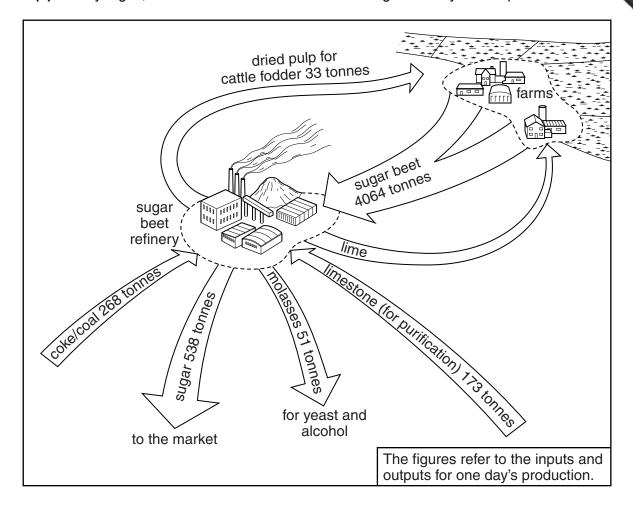


Fig. 9

(i)	Identify the main raw material which is used in the sugar refinery.	
		[1]
(ii)	Identify two outputs from the refinery, other than sugar.	
	1	
	2	[2]

(b)

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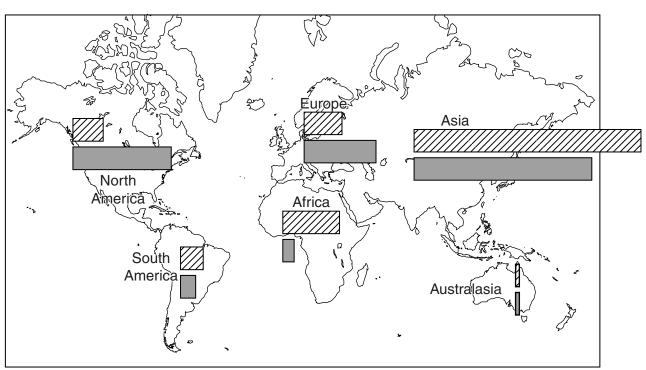
				plete the table by	writing the	to C
words in t	·			oes of employme	nt.	PapaCa
	Primary	Secon	ndary	Tertiary		
	Job			Type of emplo	oyment	
Packagir	ng sugar in the	refinery				
Growing	sugar beet					
Driving I	orries deliverino	g sugar				
						[3]
	r the sugar.			its main raw ma		
	r the sugar.					
market for	r the sugar.					
market for	r the sugar.	which show	ws a suga			[4]

[Turn over

	22	
ii)	Describe the problems which manufacturing industries, such as the sugar might cause for the local natural environment.	Andr.
		age .
		1.0
		•
		•
	[5]
exp	a named example of an area where high technology industry has been located lain what has attracted this type of industry to the area. me of area	,
exp	lain what has attracted this type of industry to the area.	
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END OF QUESTION 5

6 (a) Study Fig. 10, which shows information about the population and the consumption energy in the different continents.



Key % of world population% of world energy consumption

Scale of bars: 1mm = 1%

Fig. 10

(i) Name one continent which has a smaller percentage of the world's population than of its energy consumption.

.....[1]

(ii) Complete the table below by inserting the names of the three missing continents. The continents should be arranged in rank order of their energy consumption.

Highest percentage of world energy consumption
A Asia
Europe
Australasia
Lowest percentage of world energy consumption

[2]

		the transfer of the transfer o	
		24	
(1	iii)	Suggest reasons why many MEDCs want to reduce the amount of energy they import.	1
			Oge .
			1.6
		[3]	
(1	iv)	Some areas are facing a shortage of non-renewable energy. Describe how renewable energy could be generated in such areas.	
		[4]	
(b)	Stud	dy Photograph C (Insert), which shows a coal-fired power station.	
	(i)	Explain why there is concern about the global environmental impacts of coal-fired power stations, such as the one shown in Photograph C.	
		[3]	

	25	
ii)	Explain the factors which influence the location of coal-fired power stations as the one shown in Photograph C.	d.
		Toge.
	[5]	1
	me an area or a country which you have studied where large amounts of fuelwood used for energy. Describe the problems this causes for local people and the natural	
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[Total: 25 marks]

Additional Page If you use the following lined page to complete the answer(s) to any question(s), the question must be clearly shown.	
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