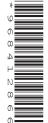


UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Ordinary Level

CECCDADUV		2217/12
CENTRE NUMBER	CANDIDATE NUMBER	
CANDIDATE NAME		



GEOGRAPHY 221*//*13

May/June 2013 Paper 1

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, one from each section.

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.



Section A

Answer **one** question from this section.

For Examiner's Use

QUESTION 1

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

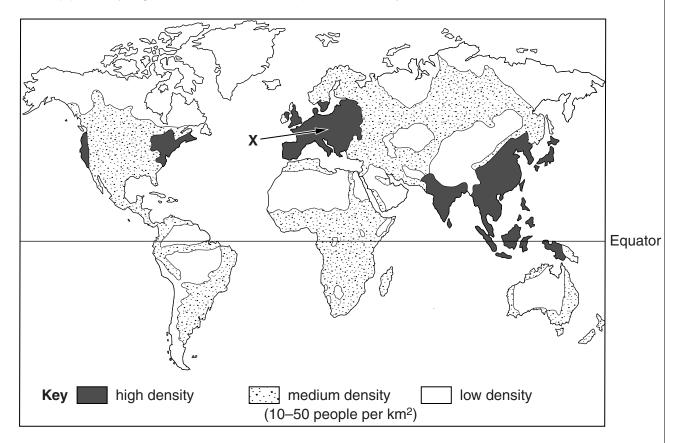


Fig. 1

(i)	Wł	nat 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]

(iii)	Suggest three reasons why the area marked X on Fig. 1 has a high population density.	F Exan U
	1	
	2	
	3	
	[3]	
(iv)	Overpopulation occurs when there are too many people for the available resources.	
	Describe four different problems which overpopulation may cause in a country.	
	1	
	2	
	3	
	4	
	[4]	

For Examiner's Use

For Examiner's Use

(b)	Stud	dy Photograph A (Insert), which shows an area which has a low population density.
	(i)	Give ${\it three}$ different reasons why the area shown in Photograph A has a low population density.
		1
		2
		3
		[3]
	(ii)	Suggest why some people live in areas of low population density, such as the one shown in Photograph A.
		[5]

For a named country which you have studied, describe the distribution of its population and draw a labelled sketch map to show this distribution.	Exar
Name of country	

[7]

[Total: 25 marks]

END OF QUESTION 1

QUESTION 2

For Examiner's Use

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

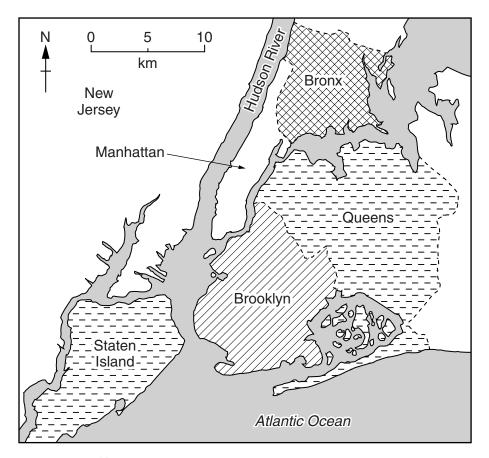
	Bronx	Brooklyn	Manhattan	Queens	Staten Island
Average (mean) annual income per household (US\$)	46 000	60 000	121 000	67 000	81 000
Percentage of households which are very poor	27	22	17	12	10
Percentage of households with residents not born in the USA	29	38	30	49	21

Fig. 2

(i) Complete Fig. 3 below, which shows the percentage of households which are very poor, by shading Manhattan. [1]

For Examiner's Use

[2]



Key percentage of households which are very poor

over 25
20 to 25
15 to 19.9
less than 15

Fig. 3

(ii) Name:

A The borough with the highest average (mean) annual income per household;

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

(iii)	To what extent is there a relationship between the percentage of households which are very poor and the average (mean) annual income per household? Use data from Fig. 2 to support your answer.	For Examiner's Use
	[3]	
(iv)	Suggest what problems are faced by people not born in the USA living in large urban areas like New York.	
	[4]	

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

For Examiner's Use

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]

For Examiner's Use

(c) For a named urban area which you have studied describe the main feature the following land use zones:				
	Inner city	Outer suburbs	Rural-urban fringe	
	Name of urban area			
	Chosen land use zone			
			[7]	
			[Total: 25 marks]	

END OF QUESTION 2

Section B

For Examiner's Use

Answer **one** question from this section.

QUESTION 3

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

Air	Maximum	Minimum	Wet bulb	Dry bulb temperature (°C)	Relative
Pressure	temperature	temperature	temperature		Humidity
(mb)	(°C)	(°C)	(°C)		(%)
1002	16	7	6	8	75

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]

(IV)	Screen. Explain how this ensures that reliable readings are obtained.	For Examiner's Use
	[4]	

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

For Examiner's Use

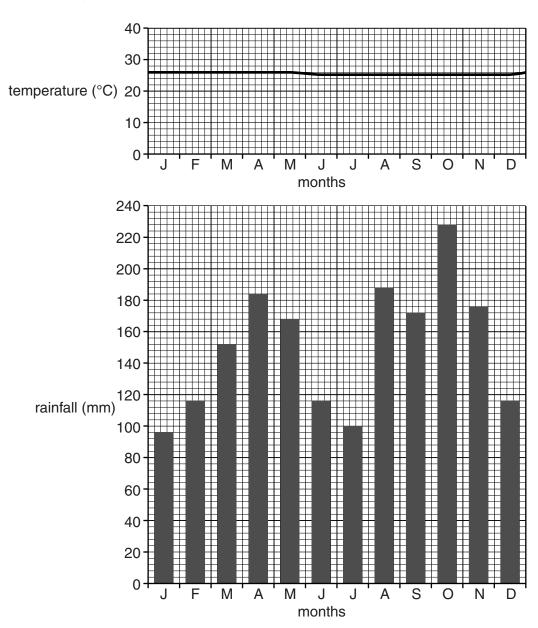


Fig. 6

Using Fig. 6 only , describe the main features of the climate of Kisangani.
[3]

(ii)	Give reasons for the climate of an area of tropical rainforest such as Kisangani.	For Examiner's
		Use
	[5]	

is taking place there.	For Examiner's Use
Name of area	
[7]	
[Total: 25 marks]	

END OF QUESTION 3

QUESTION 4

For Examiner's Use

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

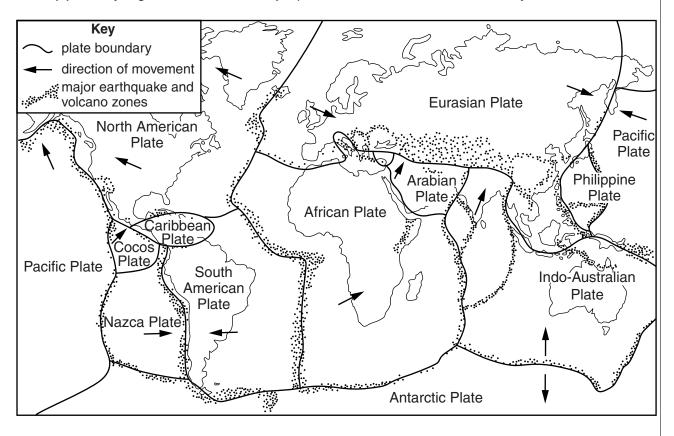


Fig. 7

(i)	What is meant by tectonic activity?
	[1]
(ii)	The following processes take place at different plate boundaries shown on Fig. 7. For each process name two plates on a boundary where the process is occurring.
	A subduction
	B plates moving apart.
	[2]

(iii)	Describe the global distribution of major earthquake and volcano zones shown on Fig. 7.	For Examiner's Use
	[3]	
(iv)	Explain why the risk of volcanic eruptions is high in some parts of the world.	
	[4]	

(b) Study Fig. 8, which shows information about an earthquake in Los Angeles, USA (MEDC).

For Examiner's Use

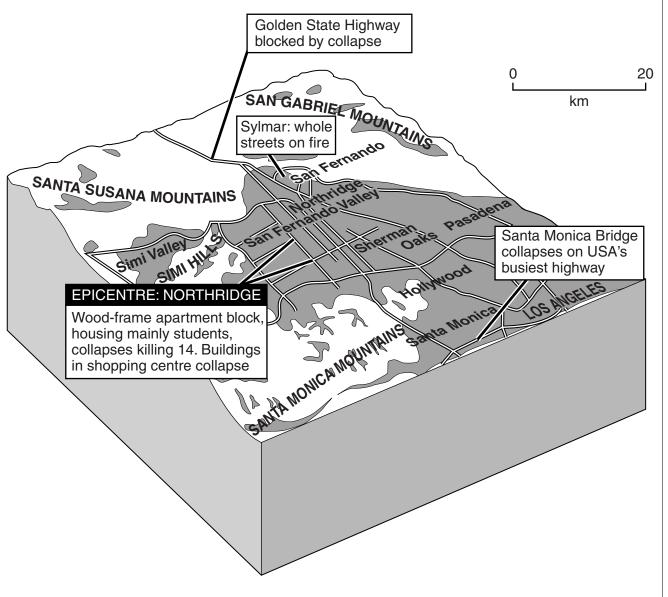


Fig. 8

identify three different types of impact of the earthquake shown on Fig. 8.
1
2
3
[3]

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(i)

	MEDCs such as the USA than in LEDCs.	For Examiner Use
	[5]	
(c)	Explain the causes of an earthquake which occurred in a named area which you have studied.	•
	Name of area	

[Total: 25 marks]

Section C

Answer one question from this section.

For Examiner's Use

QUESTION 5

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

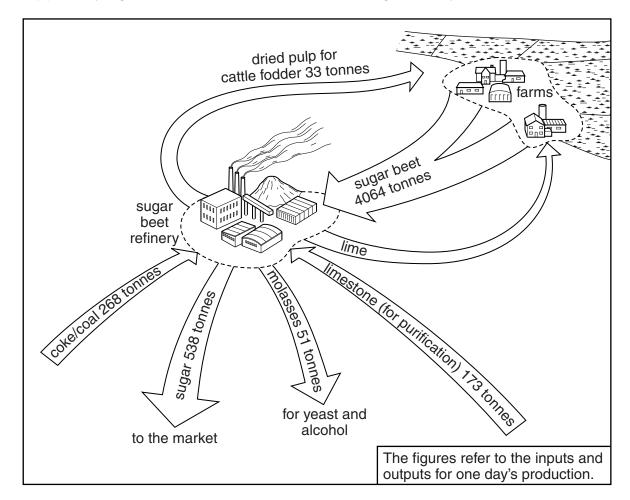


Fig. 9

(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]	

(iii)	(iii) Three jobs are listed in the table below. Complete the table by writing words in the correct spaces to classify the types of employment.		
	Primary	Secondary	Tertiary

For Examiner's Use

	1 milary Coool	rottary
	Job	Type of employment
	Packaging sugar in the refinery	
	Growing sugar beet	
	Driving lorries delivering sugar	
		[3]
(iv)	Suggest why the refinery is locate market for the sugar.	d close to its main raw material rather than the
		[4]
(b) Stud	dy Photograph B (Insert), which sho	ws a sugar refinery.
(i)	Describe three features of the suga	ar refinery buildings shown in Photograph B.
	1	
	2	
	3	
		[3]
		[U]

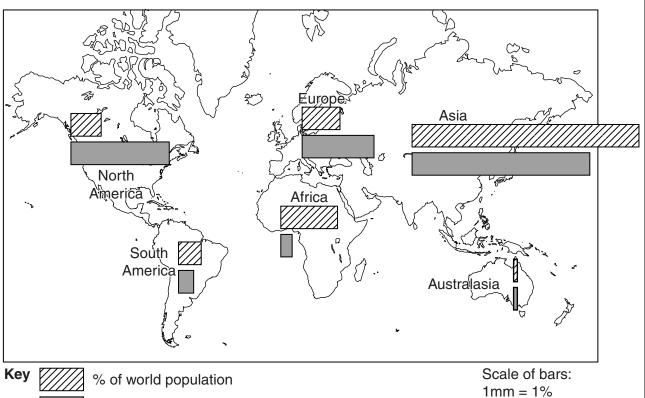
	(ii)	Describe the problems which manufacturing industries, such as the sugar refinery, might cause for the local natural environment.	For Examine Use
		[5]	
(c)		a named example of an area where high technology industry has been located, lain what has attracted this type of industry to the area.	
	Nan	ne of area	
		[7]	
		[Total: 25 marks]	

END OF QUESTION 5

QUESTION 6

For Examiner's Use

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



% of world energy consumption

......

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		
Asia		
Europe		
Australasia		
Lowest percentage of world energy consumption		

[2]

	Suggest reasons why many MEDCs want to reduce the amount of energy which ney import.
•	
	[3]
•	
	Some areas are facing a shortage of non-renewable energy. Describe how enewable energy could be generated in such areas.
•	
•	
	[4]
.,	
	Photograph C (Insert), which shows a coal-fired power station.
JУ	
Е	Explain why there is concern about the global environmental impacts of coal-fired lower stations, such as the one shown in Photograph C.
Е	
Е	
Е	ower stations, such as the one shown in Photograph C.
E	
E	ower stations, such as the one shown in Photograph C.
Е	ower stations, such as the one shown in Photograph C.

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(b)

as the one shown in Photograph C.	
	[6]
	.[၁]
are used for energy. Describe the problems this causes for local people and the nati	urai
environment.	
Name of area or country	
Name of area or country	

[Total: 25 marks]

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

27

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