UNIVERSITY OF CAMBRIDGE INTERNATIONAL EX
International General Certificate of Secondary Educati

CANDIDATE NAME

CENTRE NUMBER | | | | | |

CAN NUMBER

5679526092

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.

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UNIVERSITY of CAMBRIDGE International Examinations

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QUESTION 1

1 **(a)** Study Fig. 1, which shows the population density of areas ar

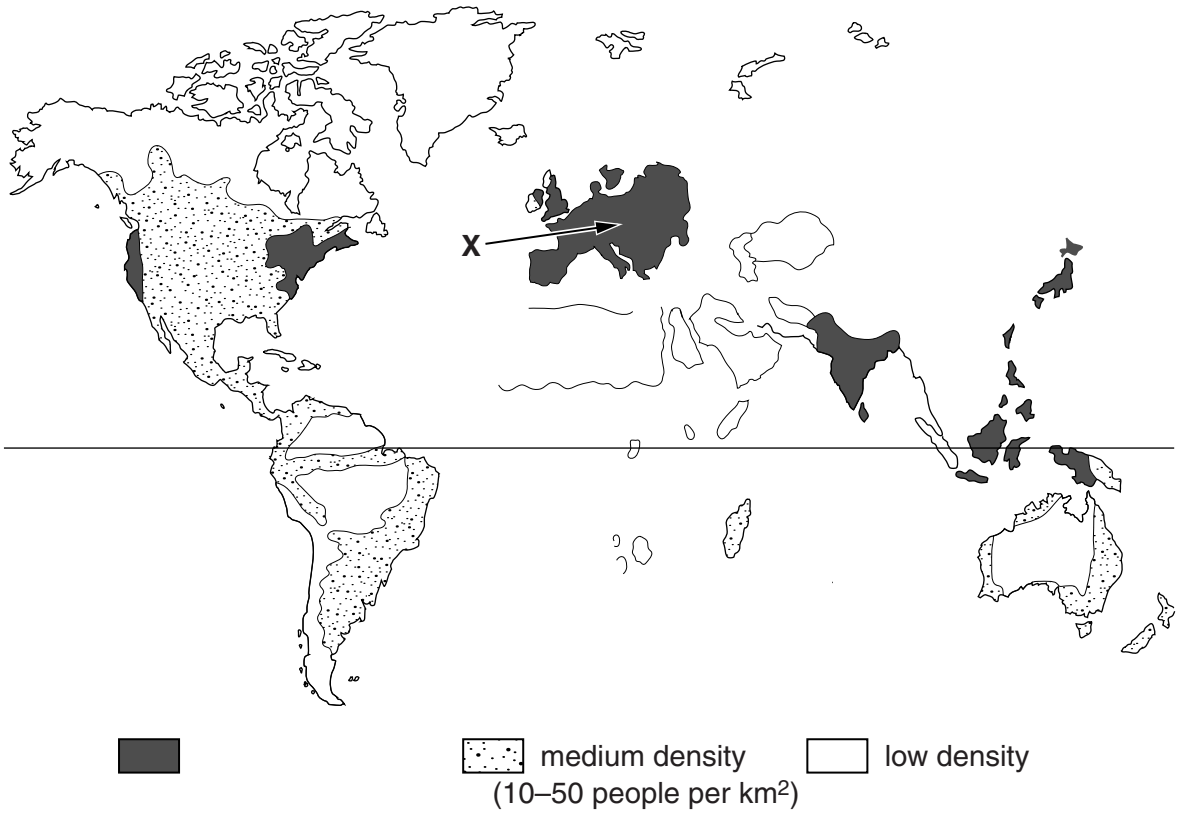


Fig. 1

(i) What is meant by a *low population density*?

.....

.....[1]

(ii) Name an area shown on Fig. 1 with a low population density;

A that also has an arid (very dry) climate,

.....

B that is also in the Southern Hemisphere.

.....[2]

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(iii) Suggest **three** reasons why the area marked **X** on Fig density.

1 .....

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2 .....

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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 .....

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2 .....

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3 .....

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4 .....

.....[4]

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(b) Study Photograph A (Insert), which shows an area which has

(i) Give **three** different reasons why the area shown in population density.

1 .....

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2 .....

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3 .....

.....[3]

(ii) Suggest why some people live in areas of low population density, such as the one shown in Photograph A.

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.....[5]

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(c) For a named country which you have studied, describe the d
and draw a labelled sketch map to show this distribution.

Name of country .....

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[7]

[Total: 25 marks]

END OF QUESTION 1

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QUESTION 2

2 (a) Study Fig. 2, which shows information about households in fiv city in the USA (MEDC).

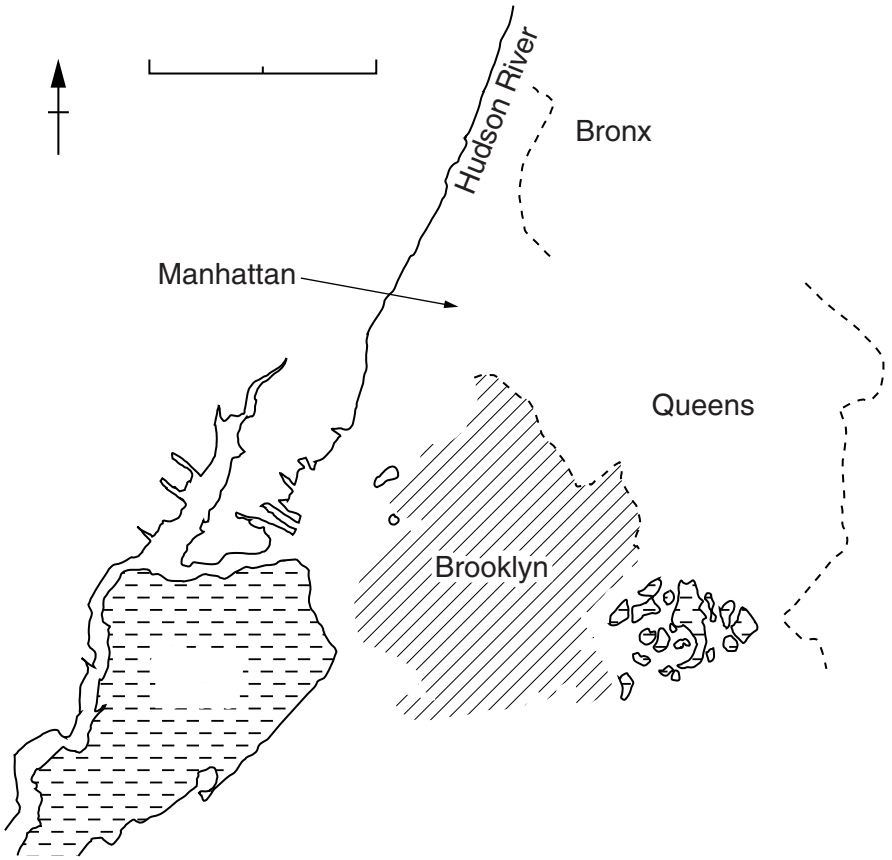
	Bronx	Brooklyn	Manhattan		
Average (mean) annual income per household (US$)	46 000	60 000	121 000		
Percentage of households which are very poor	27	22	17	12	10
Percentage of households with residents not born in the USA	29	38	30	49	21

Fig. 2

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(i) Complete Fig. 3 below, which shows the percentage of 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:

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.

..... [2]

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(iii) To what extent is there a relationship between the perce
are very poor and the average (mean) annual income pe
Use data from Fig. 2 to support your answer.

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.....[3]

(iv) Suggest what problems are faced by people not born in the USA living in large urban areas like New York.

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.....[4]

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

Air pollution in New York reaching cr

Fig. 4

(i) Describe **three** different problems caused by air pollutio as New York.

1 .....

.....

2 .....

.....

3 .....

.....[3]

(ii) Explain why there are high levels of air pollution in many cities.

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.....[5]

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(c) For a named urban area which you have studied describe t
the following land use zones:

Inner city Outer suburbs Rural-u

Name of urban area .....

Chosen land use zone .....

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.....[7]

[Total: 25 marks]

END OF QUESTION 2

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QUESTION 3

3 **(a)** Study Fig. 5, which shows data about the weather rec meteorological station.

Air Pressure (mb)	Maximum temperature (°C)	Minimum temperature (°C)	Wet bulb temperature (°C)	t
1002	16	7	6	

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.

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.....[3]

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(iv) The thermometers used at the meteorological station Screen. Explain how this ensures that reliable readings

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.....[4]

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(b) Study Fig. 6, which shows the climate of Kisangani, Democr
area of tropical rainforest.

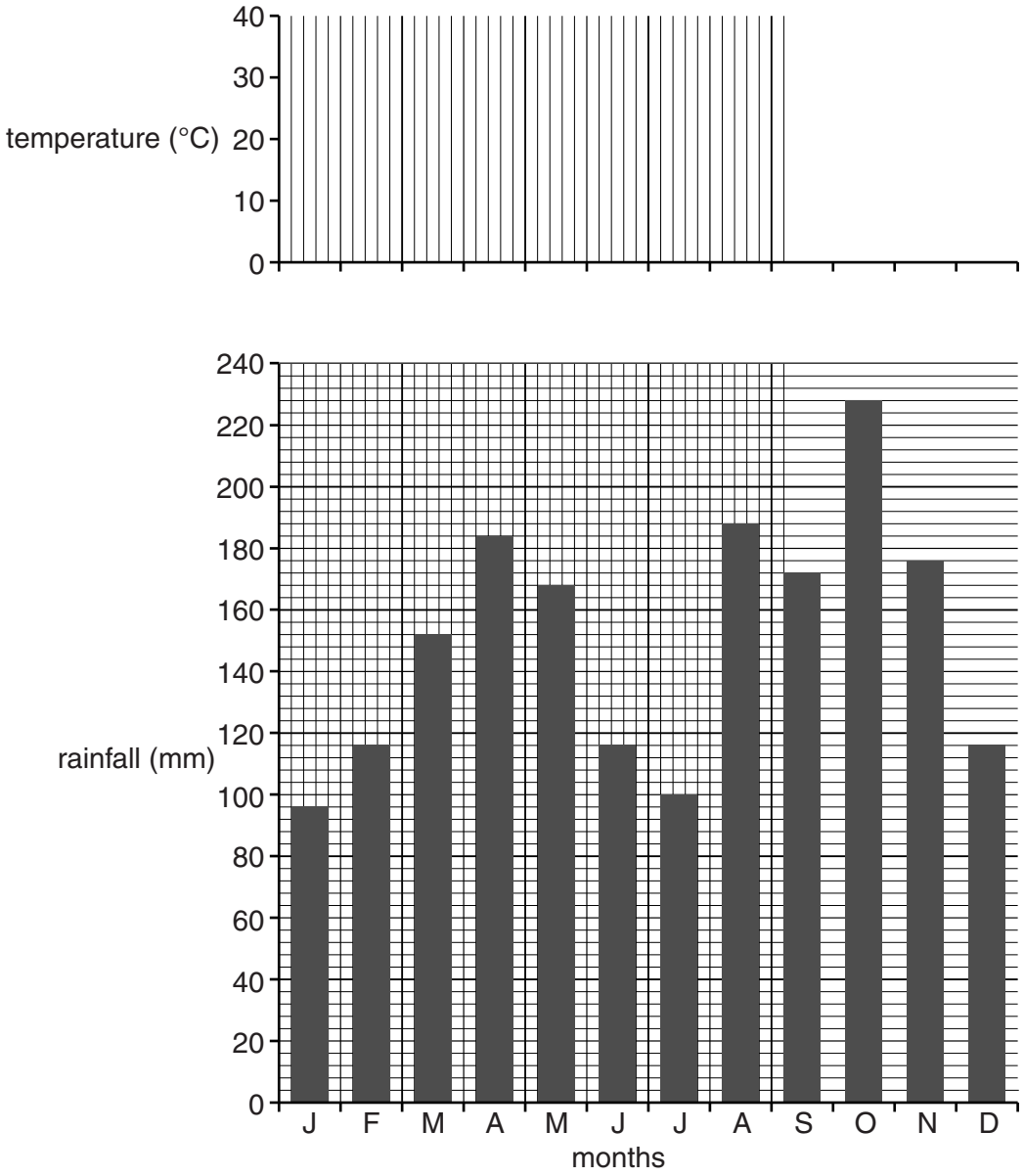


Fig. 6

(i) Using Fig. 6 **only**, describe the main features of the climate of Kisangani.

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.....[3]

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(ii) Give reasons for the climate of an area of tropical rainfor

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.....[5]

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(c) Name an area of tropical rainforest which you have studied an is taking place there.

Name of area .....

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[Total: 25 marks]

END OF QUESTION 3

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QUESTION 4

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

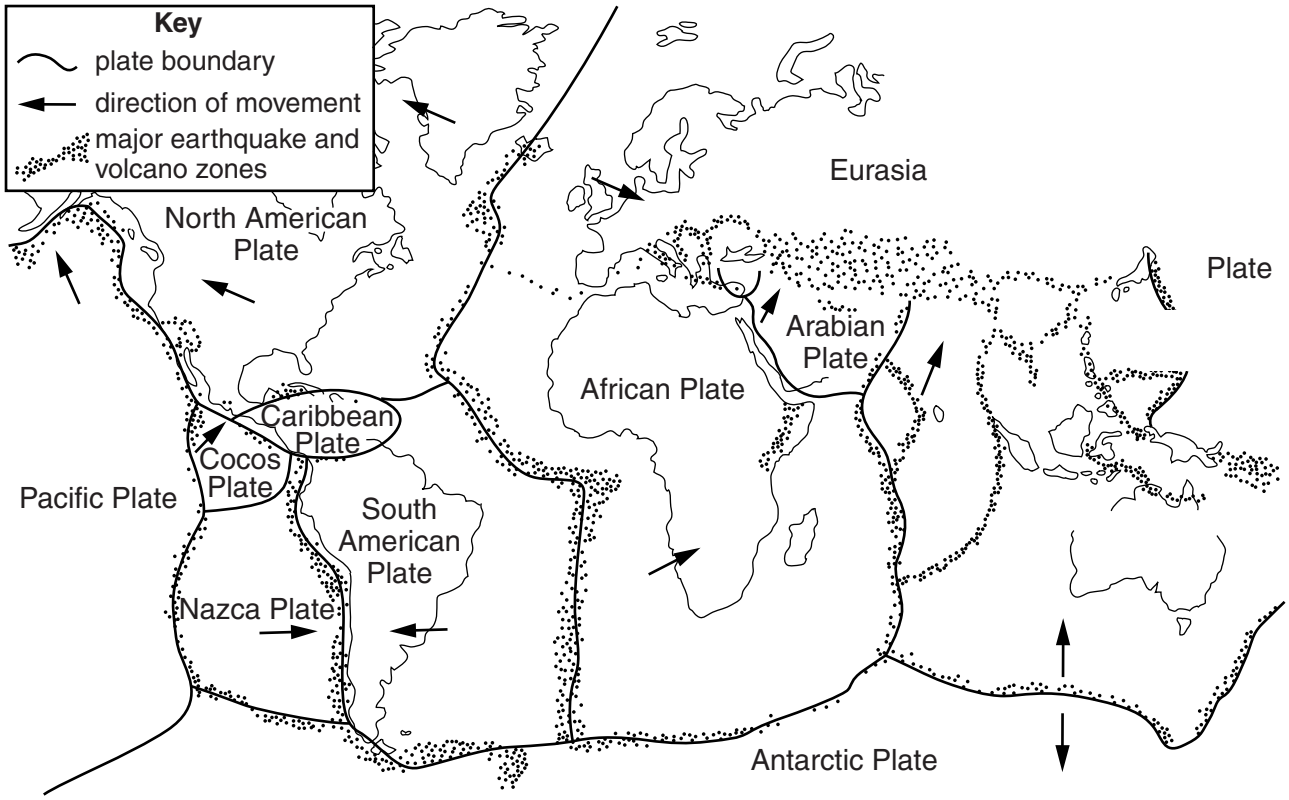


Fig. 7

(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]

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(iii) Describe the global distribution of major earthquake an
Fig. 7.

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.....[3]

(iv) Explain why the risk of volcanic eruptions is high in some parts of the world.

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.....[4]

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(b) Study Fig. 8, which shows information about an earthqu (MEDC).

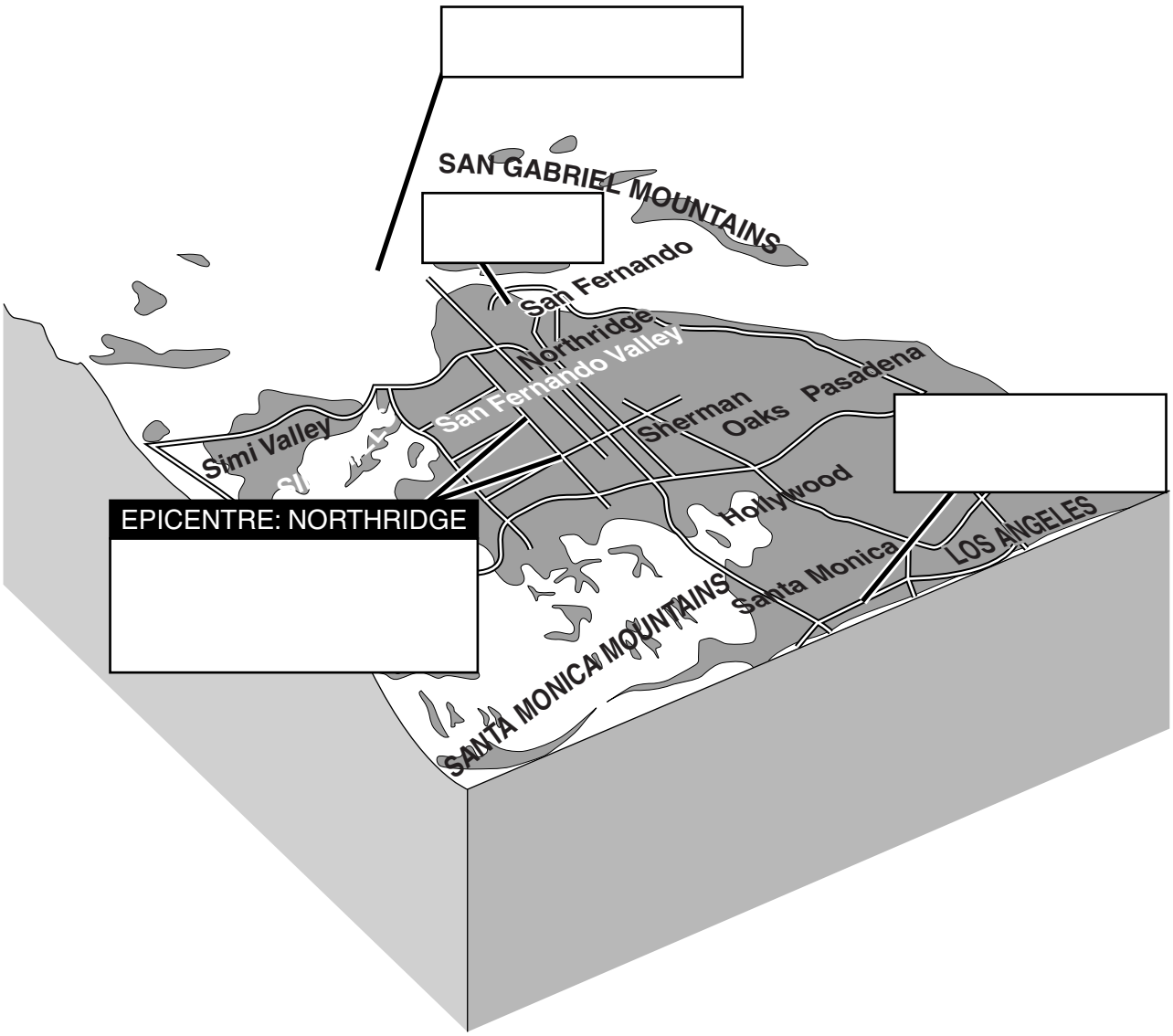


Fig. 8

(i) Identify **three** different types of impact of the earthquake shown on Fig. 8.

1 .....

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2 .....

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3 .....

.....[3]

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(ii) Explain why the impacts of earthquakes of similar inten
MEDCs such as the USA than in LEDCs.

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.....[5]

(c) Explain the causes of an earthquake which occurred in a named area which you have studied.

Name of area.....

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[Total: 25 marks]

END OF QUESTION 4

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QUESTION 5

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

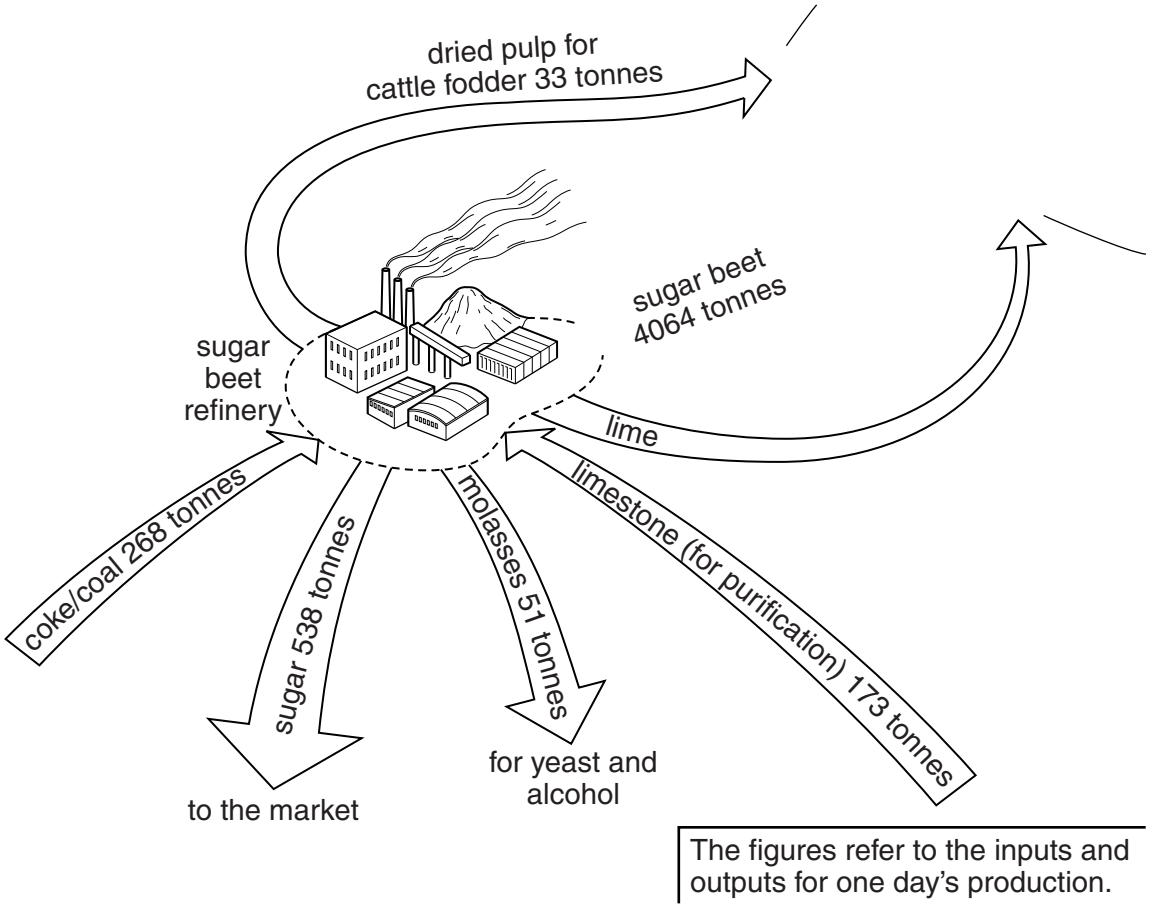


Fig. 9

(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]

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(iii) Three jobs are listed in the table below. Complete the ta
words in the correct spaces to classify the types of empl

Primary Secondary Tertiary

Job	Type of
Packaging sugar in the refinery	
Growing sugar beet	
Driving lorries delivering sugar	

[3]

(iv) Suggest why the refinery is located close to its main raw material rather than the market for the sugar.

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.....[4]

(b) Study Photograph B (Insert), which shows a sugar refinery.

(i) Describe **three** features of the sugar refinery buildings shown in Photograph B.

1 .....

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2 .....

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3 .....

.....[3]

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(ii) Describe the problems which manufacturing industries, might cause for the local natural environment.

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.....[5]

(c) For a named example of an area where high technology industry has been located, explain what has attracted this type of industry to the area.

Name of area .....

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[Total: 25 marks]

END OF QUESTION 5

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QUESTION 6

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

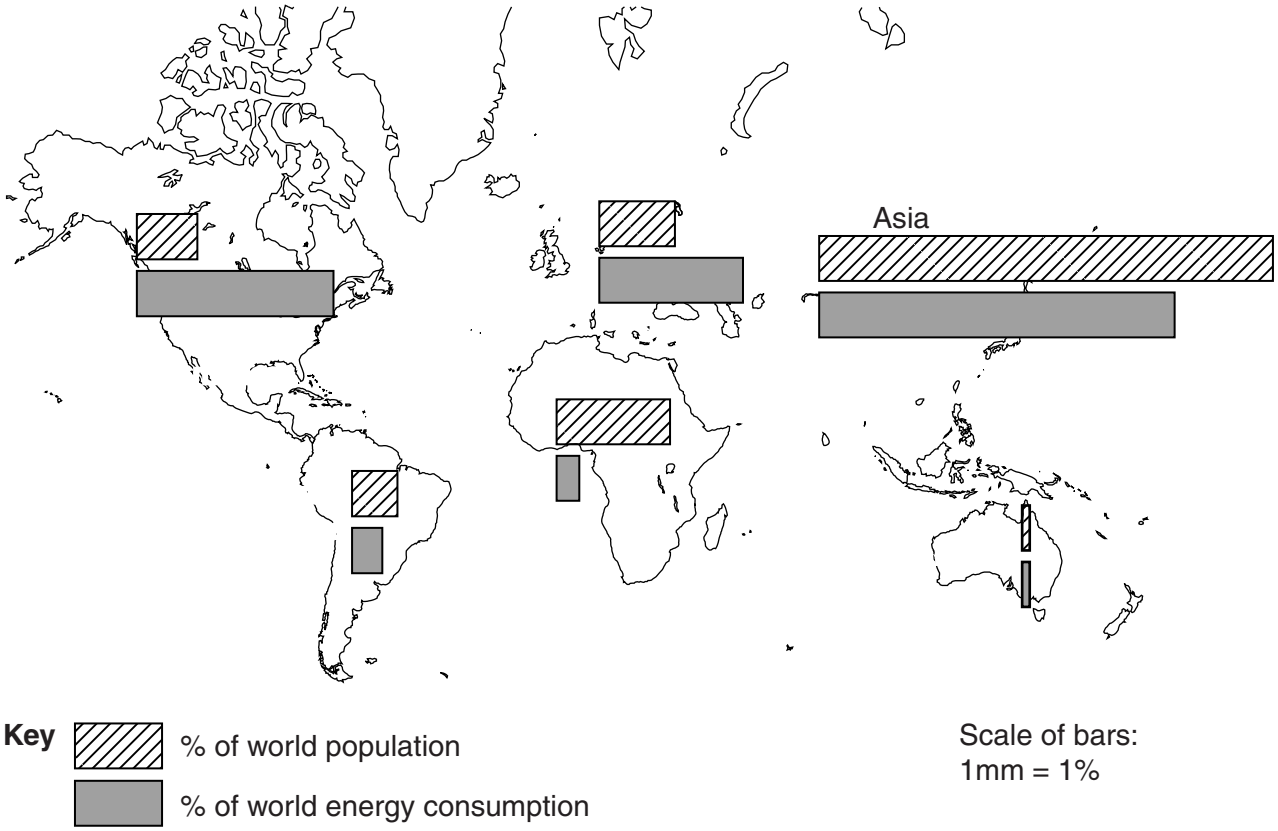


Fig. 10

(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]

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(iii) Suggest reasons why many MEDCs want to reduce th they import.

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.....[3]

(iv) Some areas are facing a shortage of non-renewable energy. Describe how renewable energy could be generated in such areas.

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.....[4]

(b) Study 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.

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.....[3]

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(ii) Explain the factors which influence the location of coal-as the one shown in Photograph C.

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.....[5]

(c) Name an area or a country which you have studied where large amounts of fuelwood are used for energy. Describe the problems this causes for local people and the natural environment.

Name of area or country.....

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.....[7]

[Total: 25 marks]

END OF QUESTION 6

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Additional Page
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must be clearly shown.

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