



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

CANDIDATE
NAME

--

CENTRE
NUMBER

--	--	--	--	--

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.



QUESTION 1

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

For
Examiner's
Use

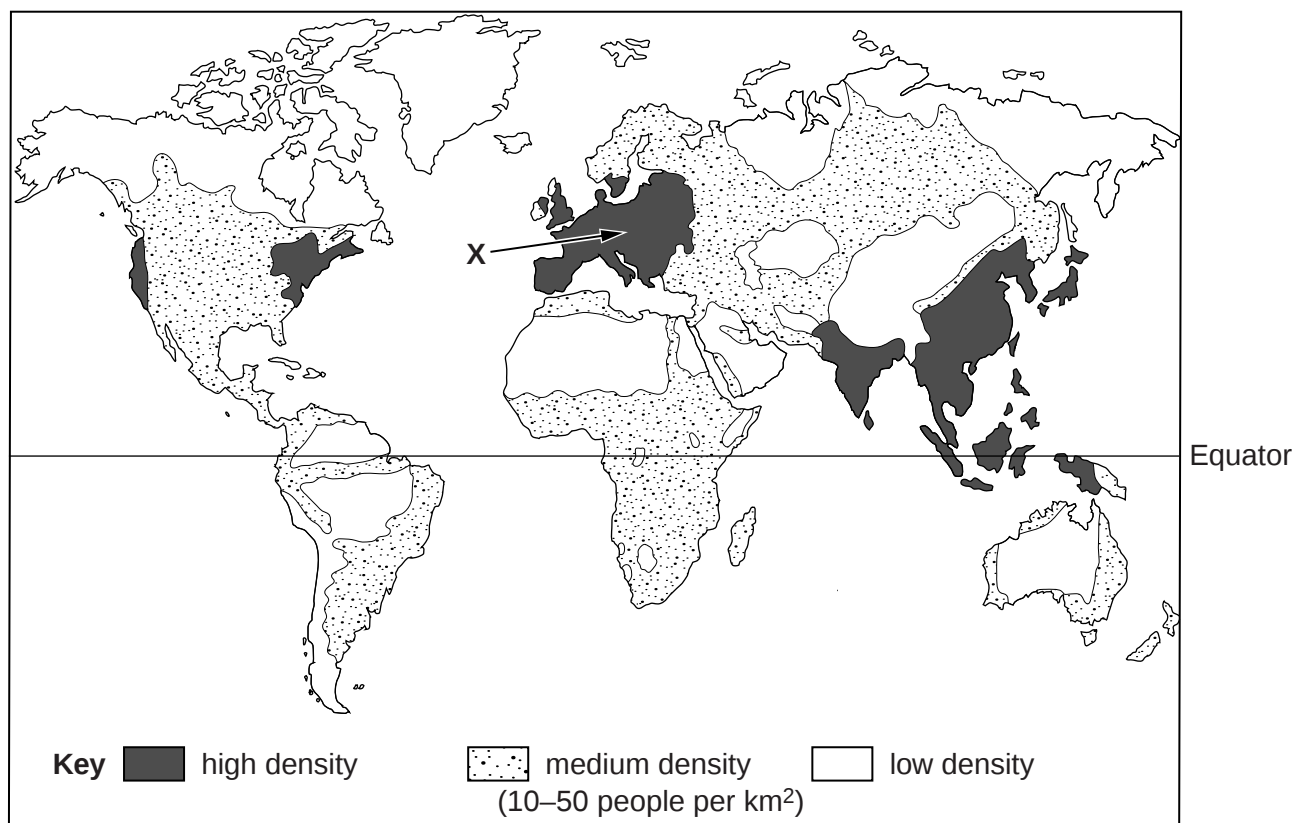


Fig. 1

(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]

- (iii) Suggest **three** reasons why the area marked **X** on Fig. 1 has a high population density.

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]

(b) Study Photograph A (Insert), which shows an area which has a low population density.

(i) Give **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]

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

For
Examiner's
Use

Name of country

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

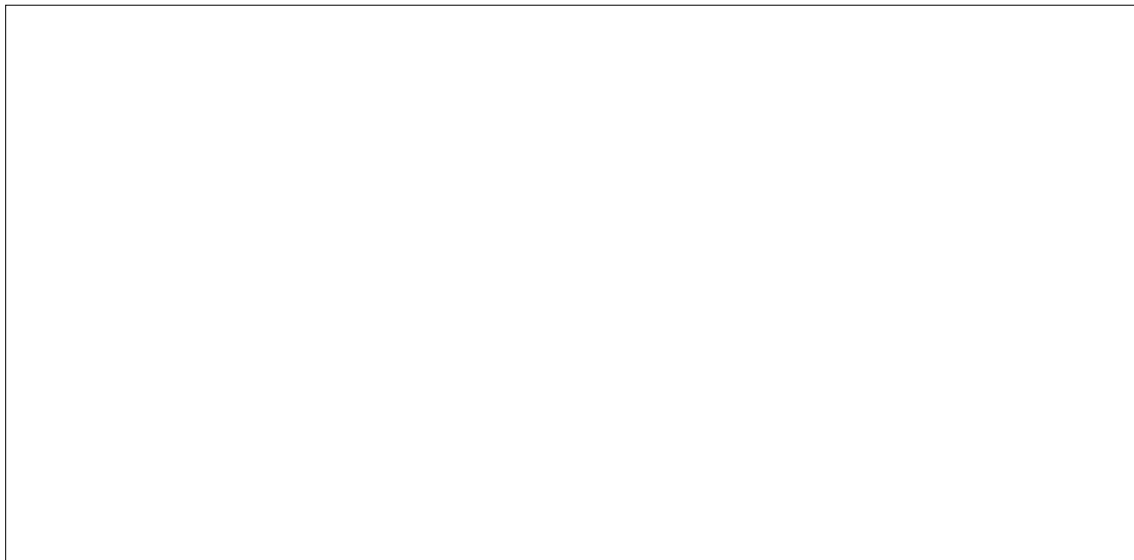
.....

.....

.....

.....

.....



[7]

[Total: 25 marks]

END OF QUESTION 1

QUESTION 2For
Examiner's
Use

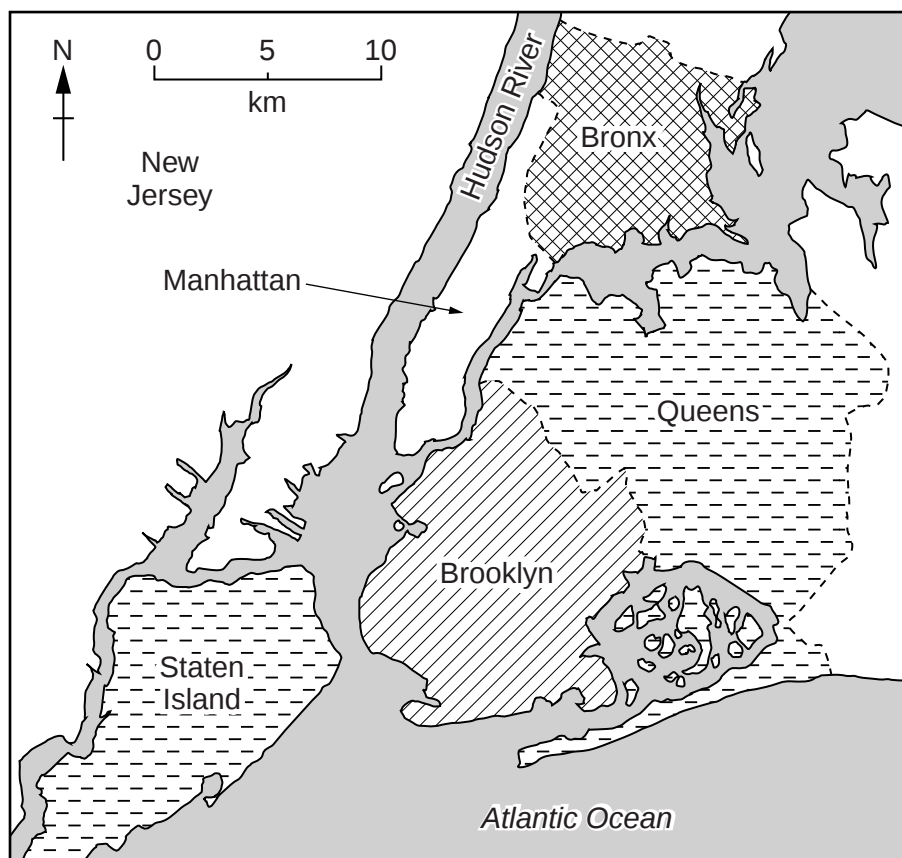
- 2 (a) Study Fig. 2, which shows information about households in five boroughs of New York, a city in the USA (MEDC).

	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



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]

- (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]

- ## Rural-urban fringe

Chosen land use zone

[7]

[Total: 25 marks]

END OF QUESTION 2

QUESTION 3

For
Examiner's
Use

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

Air Pressure (mb)	Maximum temperature (°C)	Minimum temperature (°C)	Wet bulb temperature (°C)	Dry bulb temperature (°C)	Relative Humidity (%)
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) The thermometers used at the meteorological station are kept in a Stevenson 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

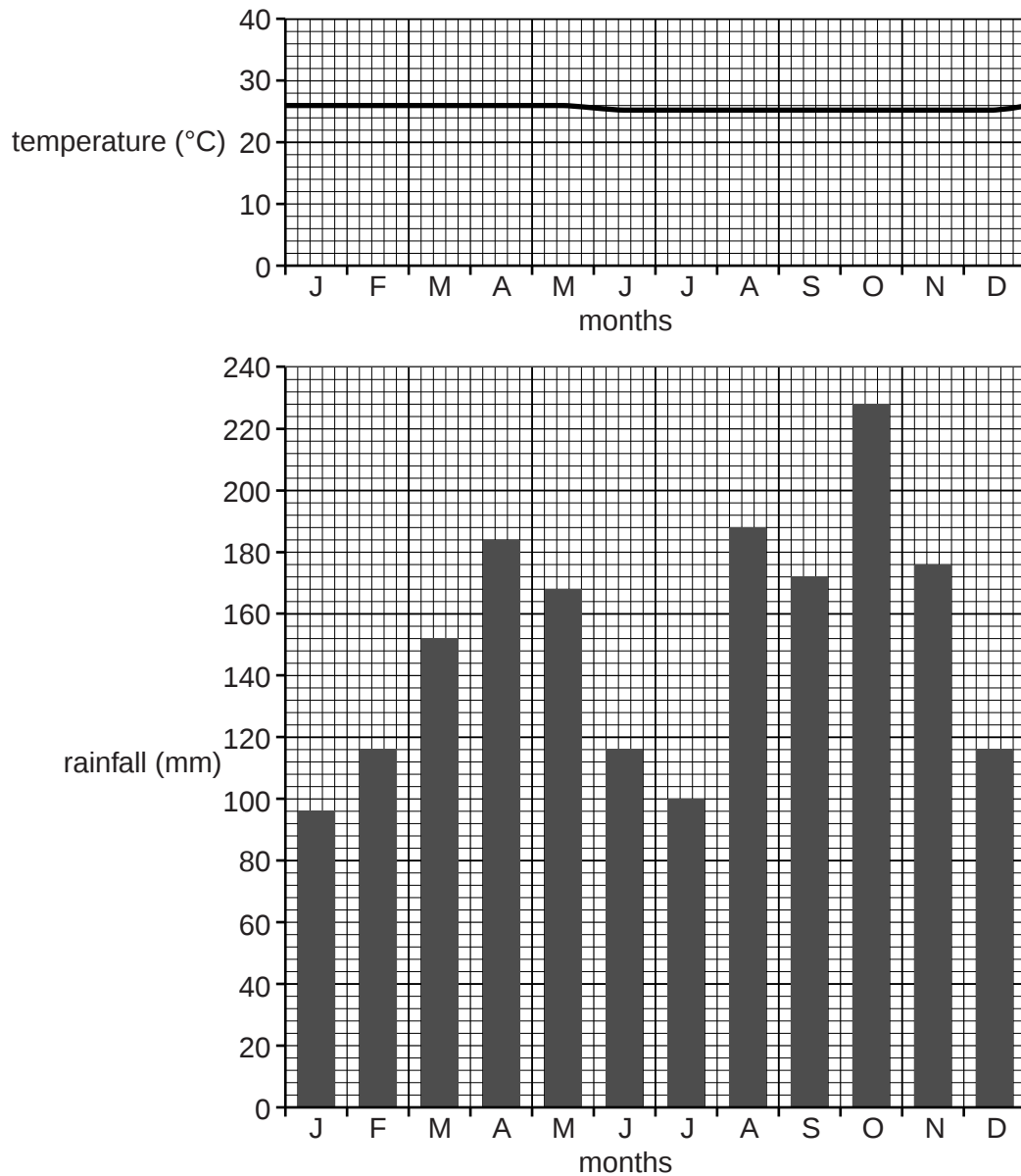


Fig. 6

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

.....

.....

.....

.....

.....

.....

.....[3]

[5]

- Name of area.....

[7]

END OF QUESTION 3

QUESTION 4

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

For
Examiner's
Use

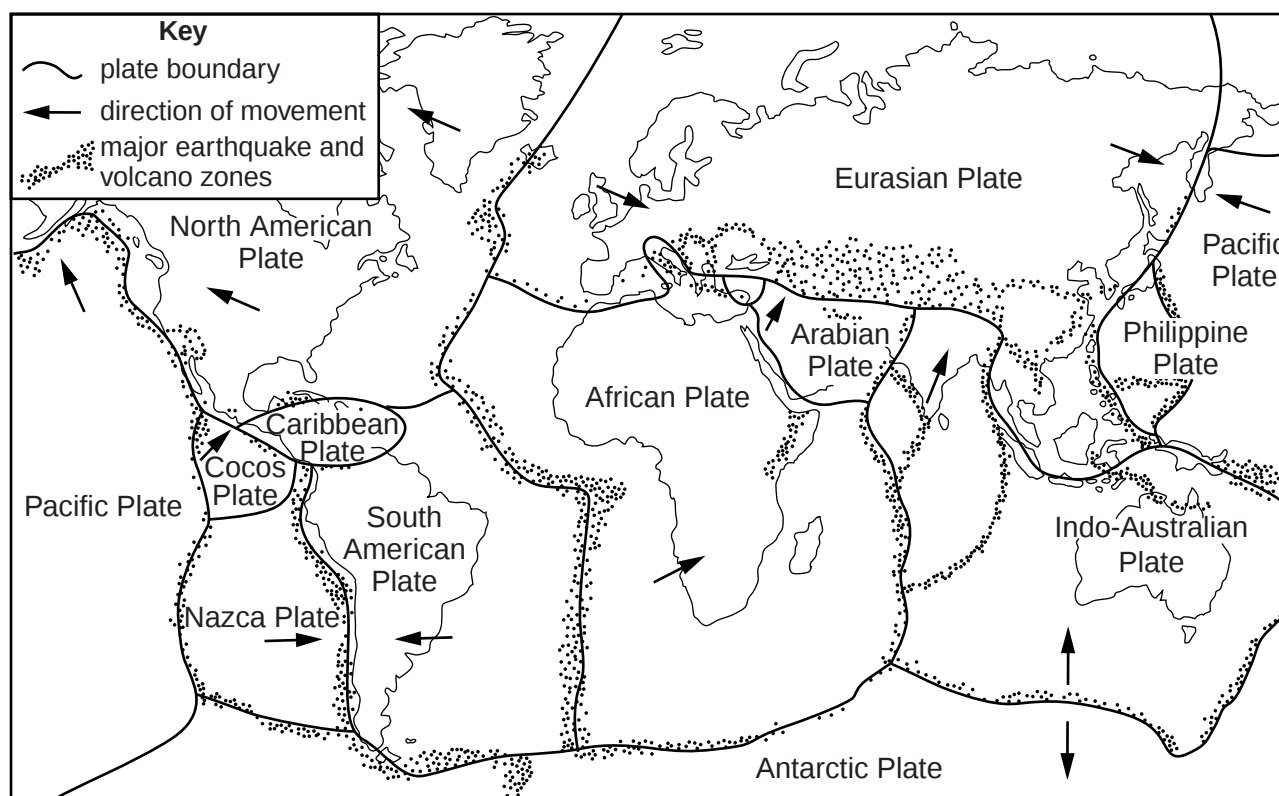


Fig. 7

(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

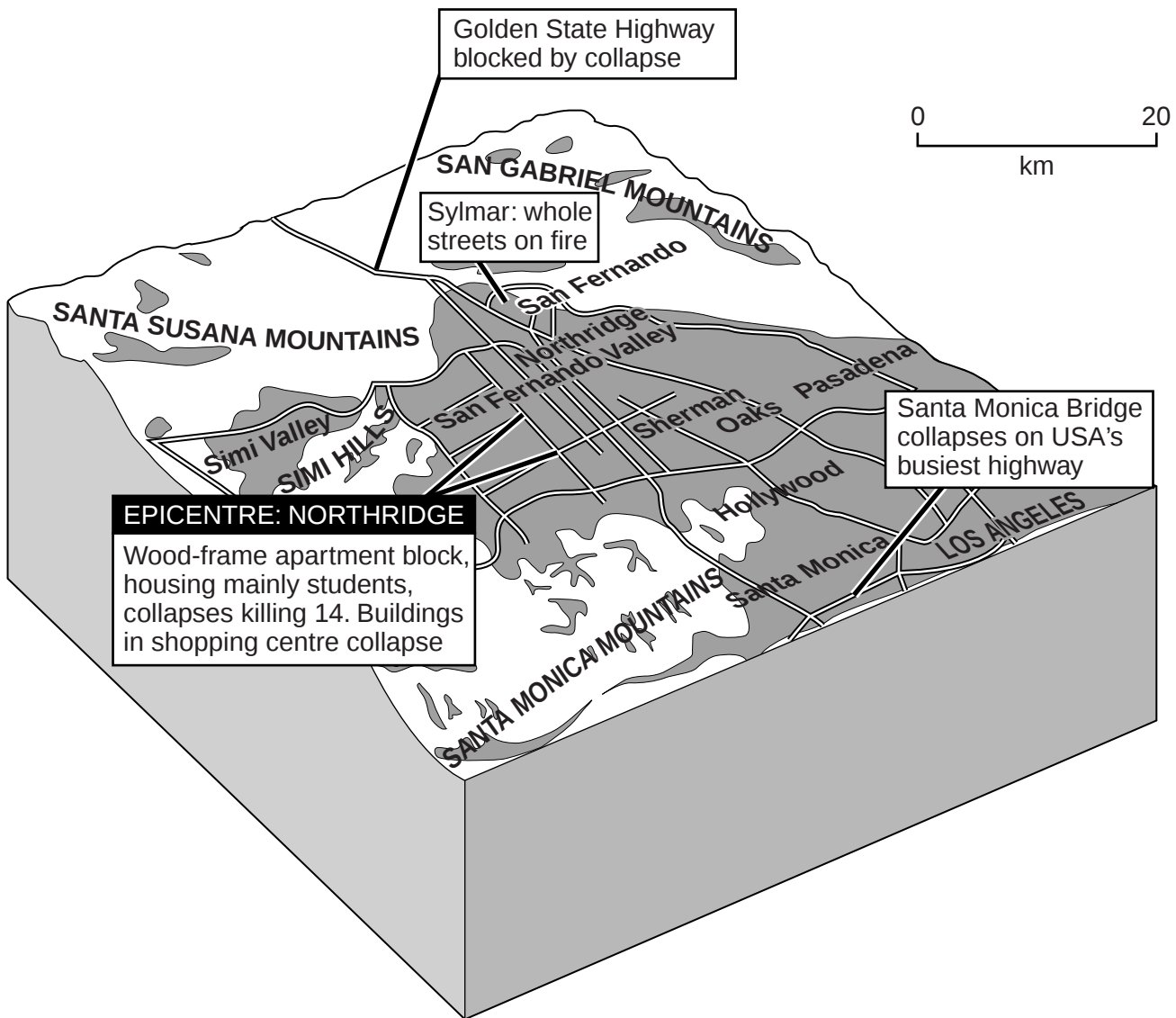


Fig. 8

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

1

.....

2

.....

3

..... [3]

-[5]

- Name of area.....

..... [7]

[Turn over
www.theallpapers.com

QUESTION 5

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

For
Examiner's
Use

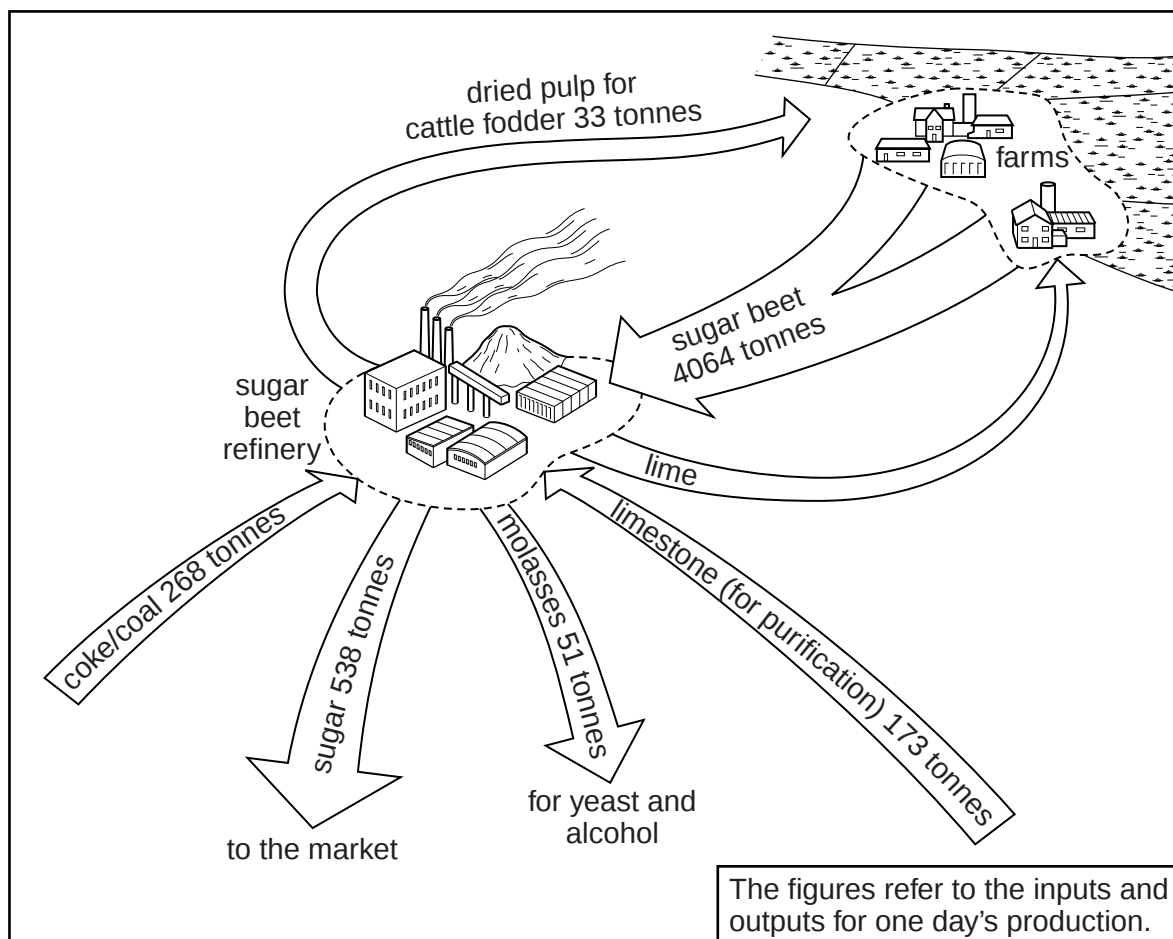


Fig. 9

(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]

- For
Examiner's
Use

Tertiary

[3]

-[4

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

1

2

3 [3]

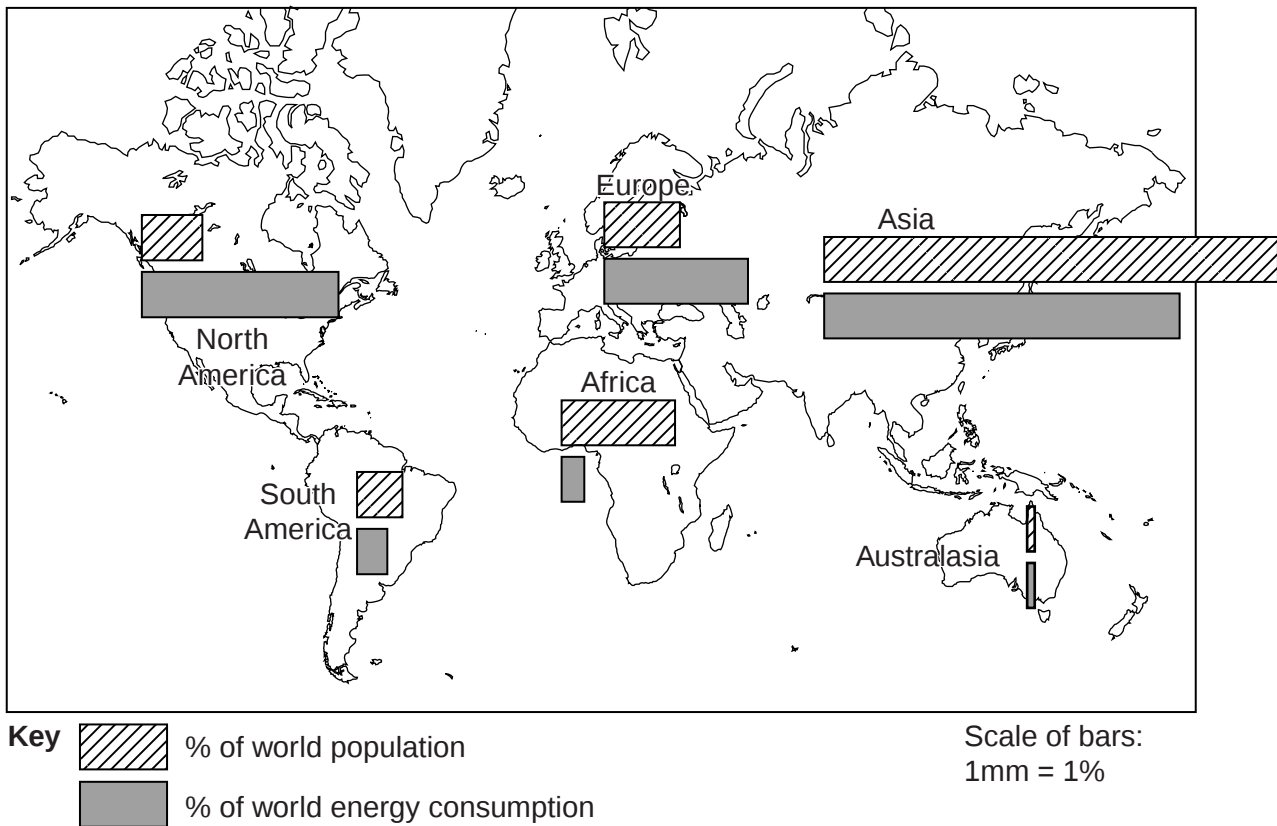
-[5]

-[7

www.theallpapers.com

QUESTION 6

- 6 (a) Study Fig. 10, which shows information about the population and the consumption of 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]

- (iii) Suggest reasons why many MEDCs want to reduce the amount of energy which they import.

.....

.....

.....

.....

.....

.....[3]

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

.....

.....

.....

.....

.....

.....

.....

.....[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.

.....

.....

.....

.....

.....

.....[3]

-[5]

- Name of area or country.....

.....[7

END OF QUESTION 6

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.

[illegible]

BLANK PAGE

Copyright Acknowledgements:

Question 1 Photograph A S Sibley © UCLES.
Question 5 Photograph B S Sibley © UCLES.
Question 6 Photograph C S Sibley © UCLES.

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

University of Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.