



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education Ordinary Level

CANDIDATE
NAME

CENTRE
NUMBER

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

CANDIDATE
NUMBER

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|



GEOGRAPHY

2217/13

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, **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.

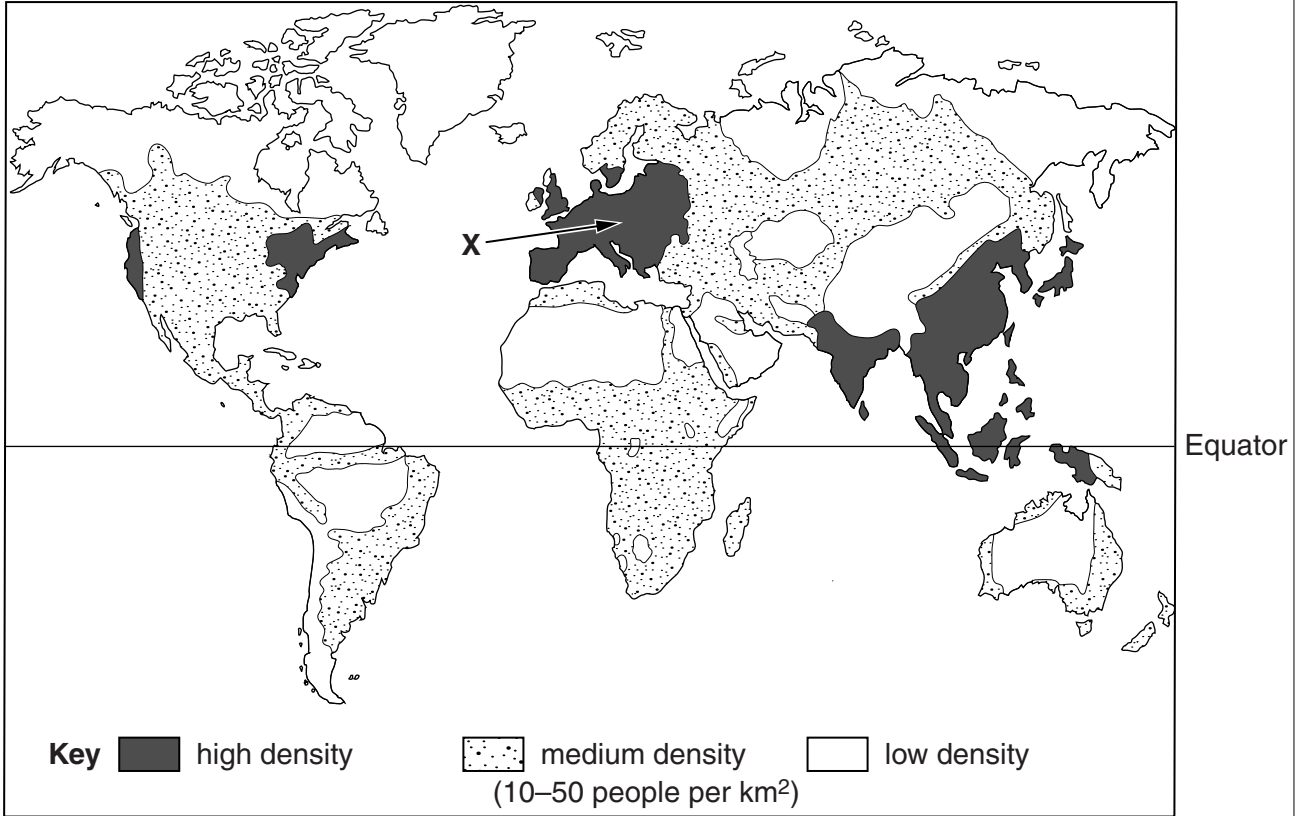


Fig. 1

(i) 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

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

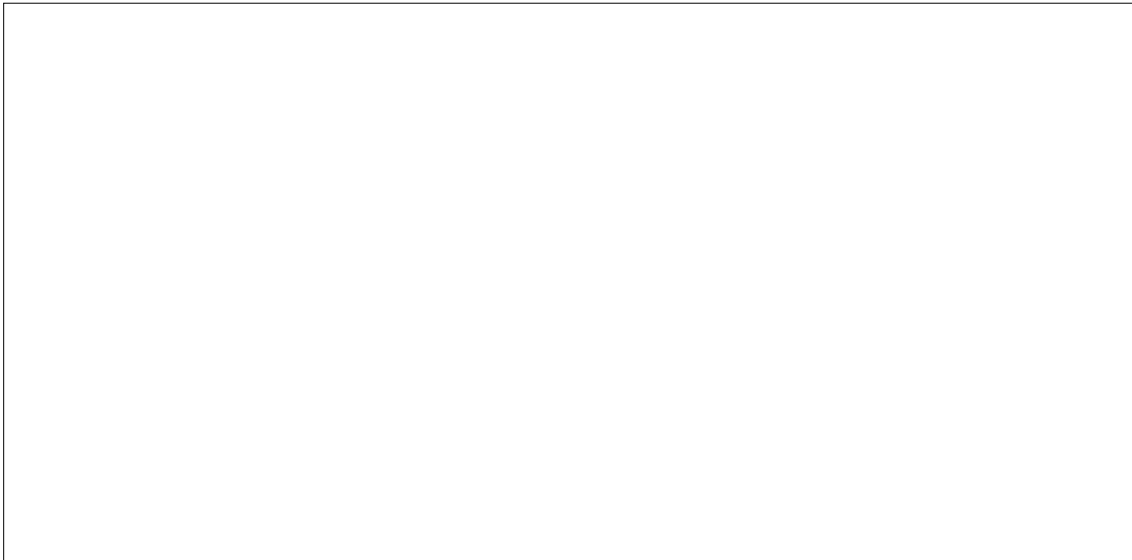
.....

.....

.....

.....

.....



[7]

[Total: 25 marks]

END OF QUESTION 1

QUESTION 2

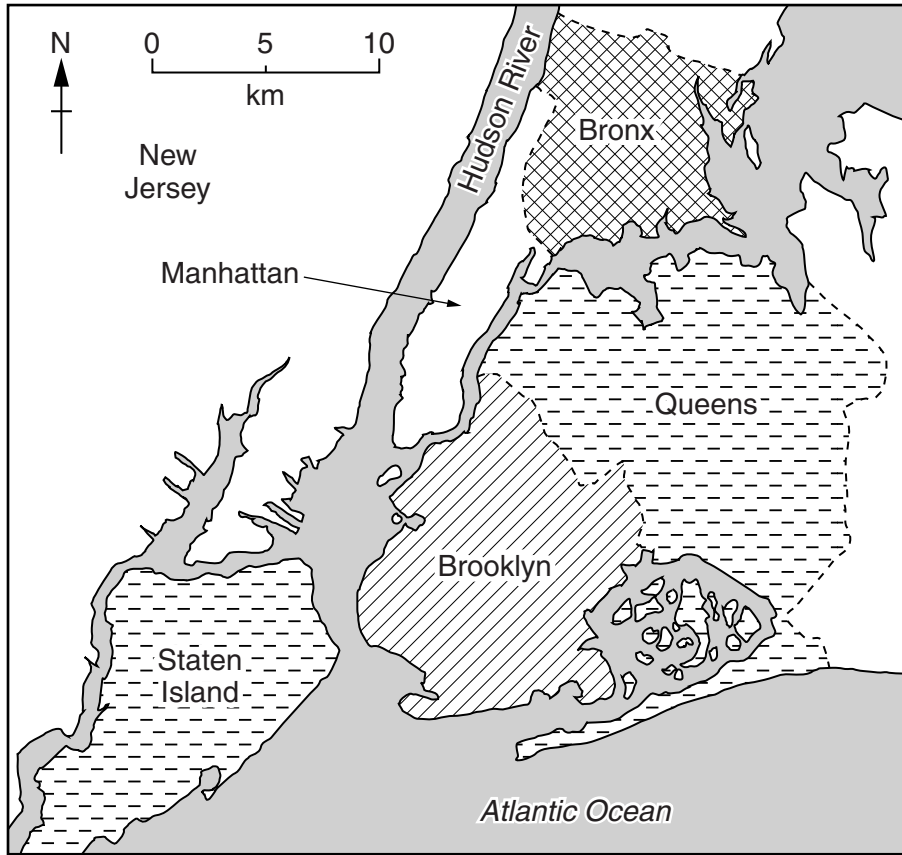
- 2 (a) Study Fig. 2, which shows information about households in five boroughs of New York, a city in the USA (MEDC).

| | 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.

.....
.....
.....
.....
.....
.....
..... [3]

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

.....
.....
.....
.....
.....
.....
.....
..... [4]

Section B

Answer **one** question from this section.

For
Examiner's
Use

QUESTION 3

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

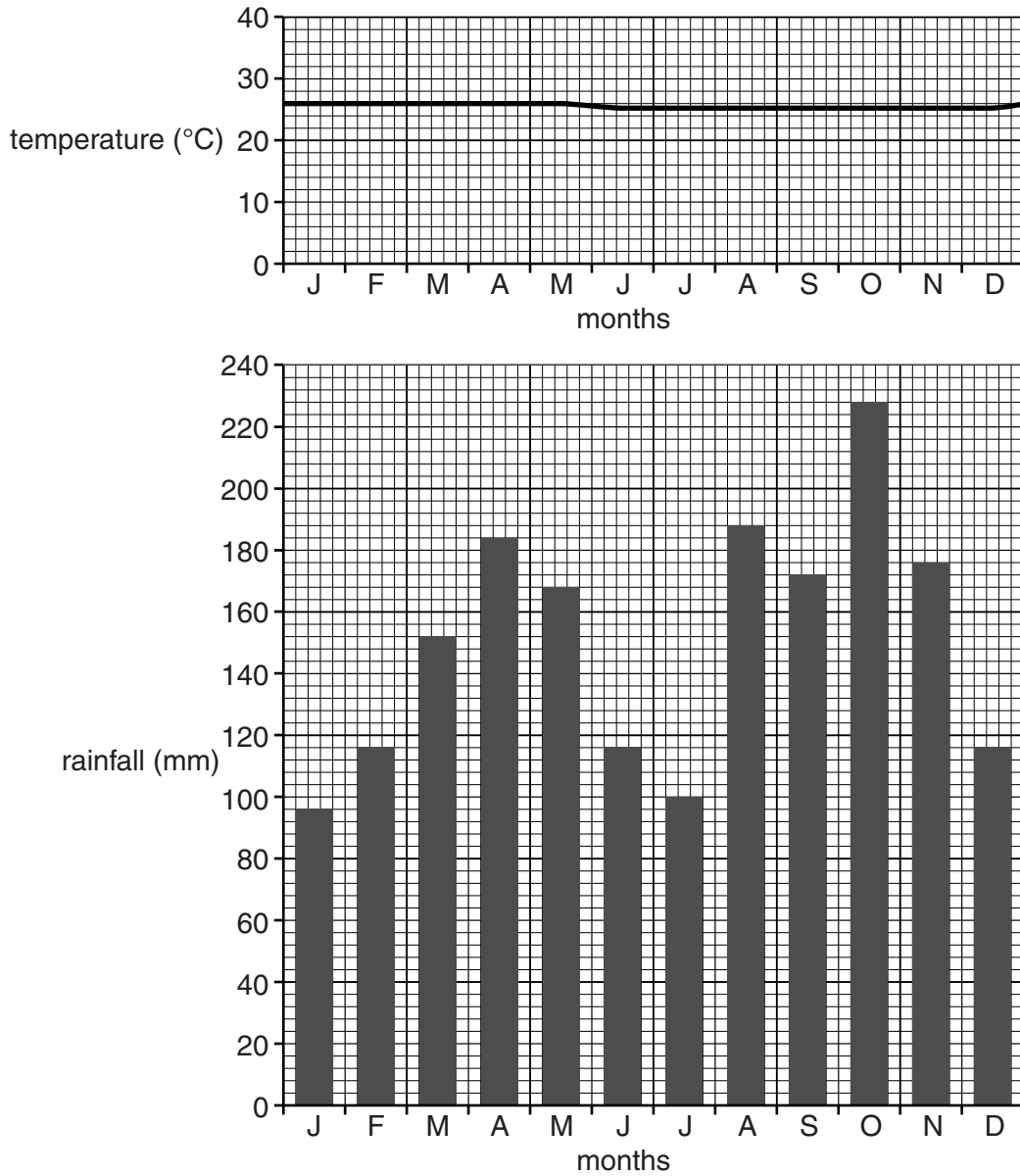


Fig. 6

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[3]

QUESTION 4

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

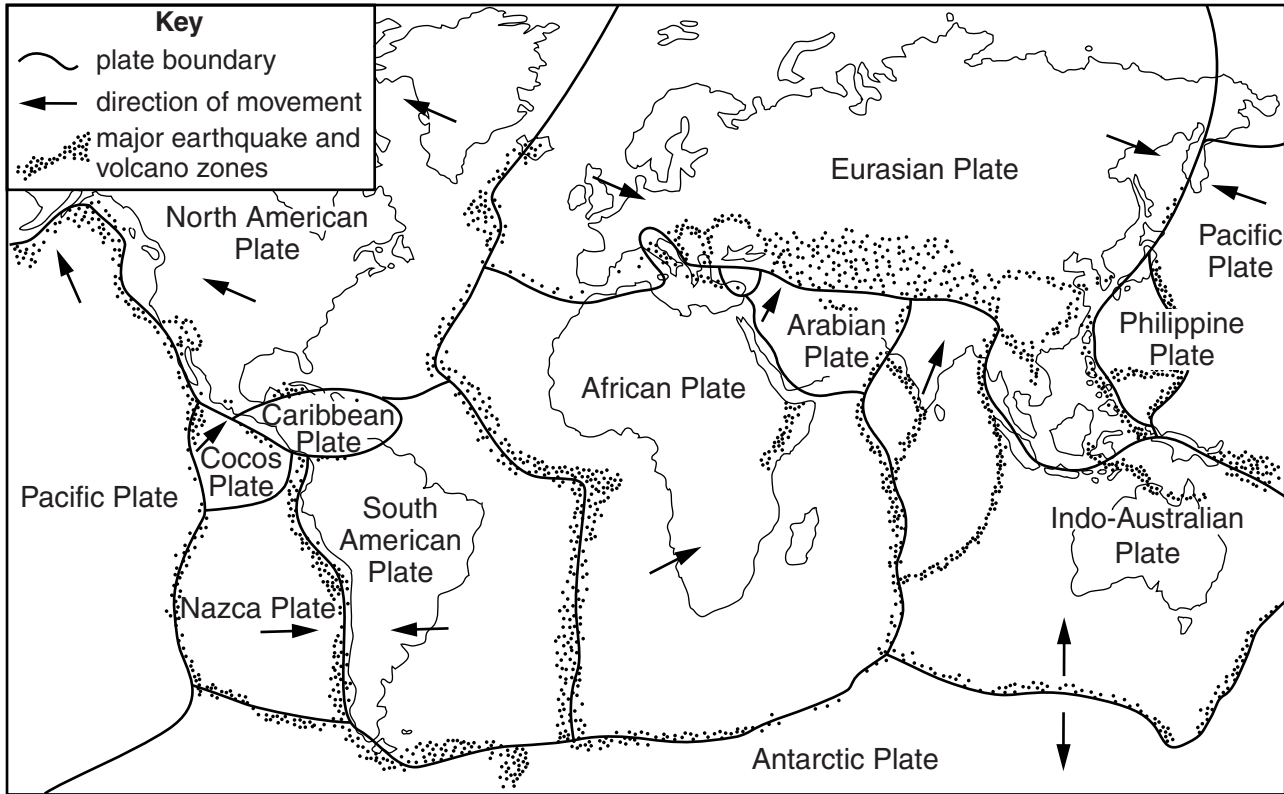


Fig. 7

(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

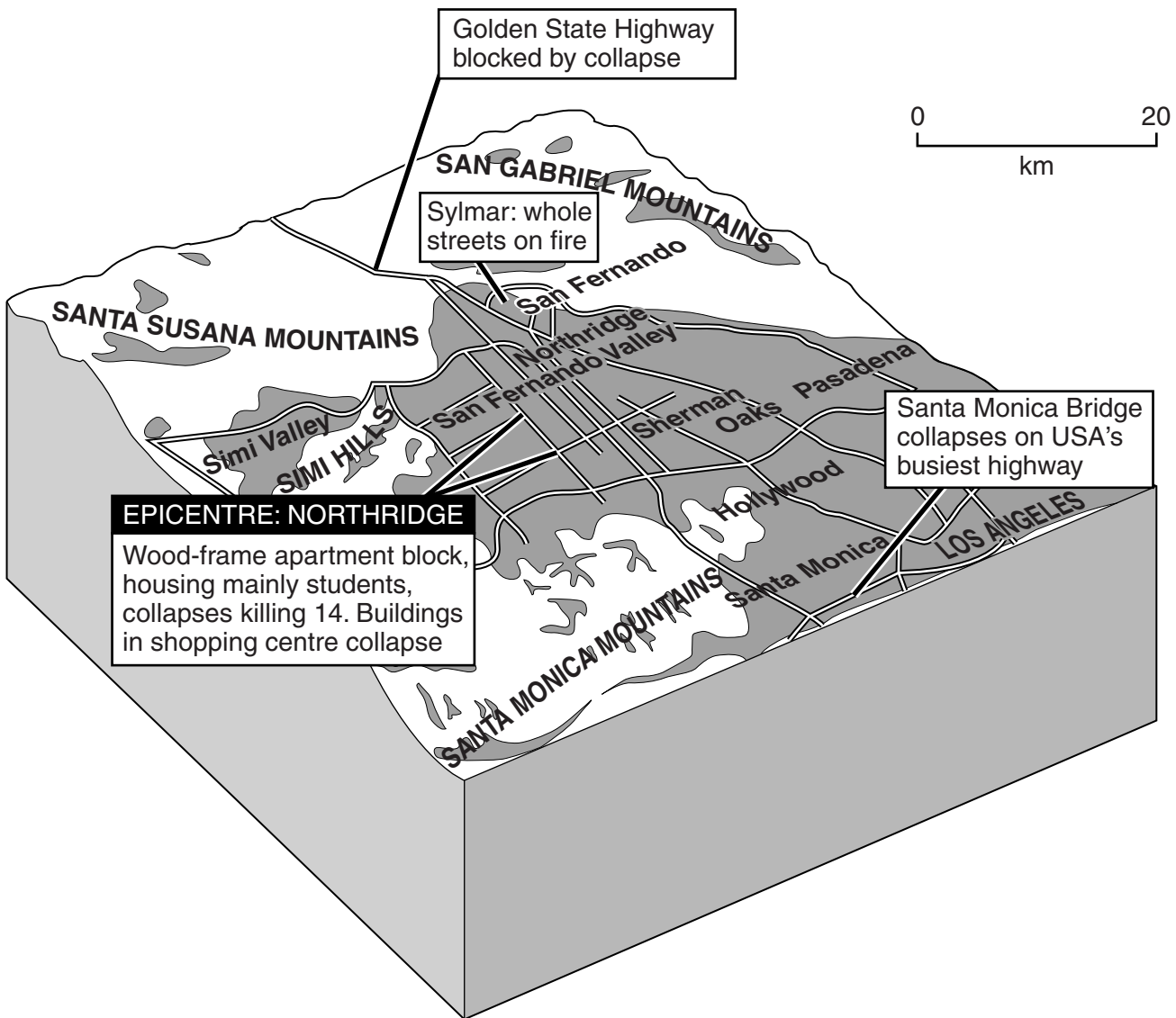


Fig. 8

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

- 1
-
- 2
-
- 3
- [3]

(ii) Explain why the impacts of earthquakes of similar intensity are likely to be less in MEDCs such as the USA than in LEDCs.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[5]

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

Name of area

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

[7]

[Total: 25 marks]

END OF QUESTION 4

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.

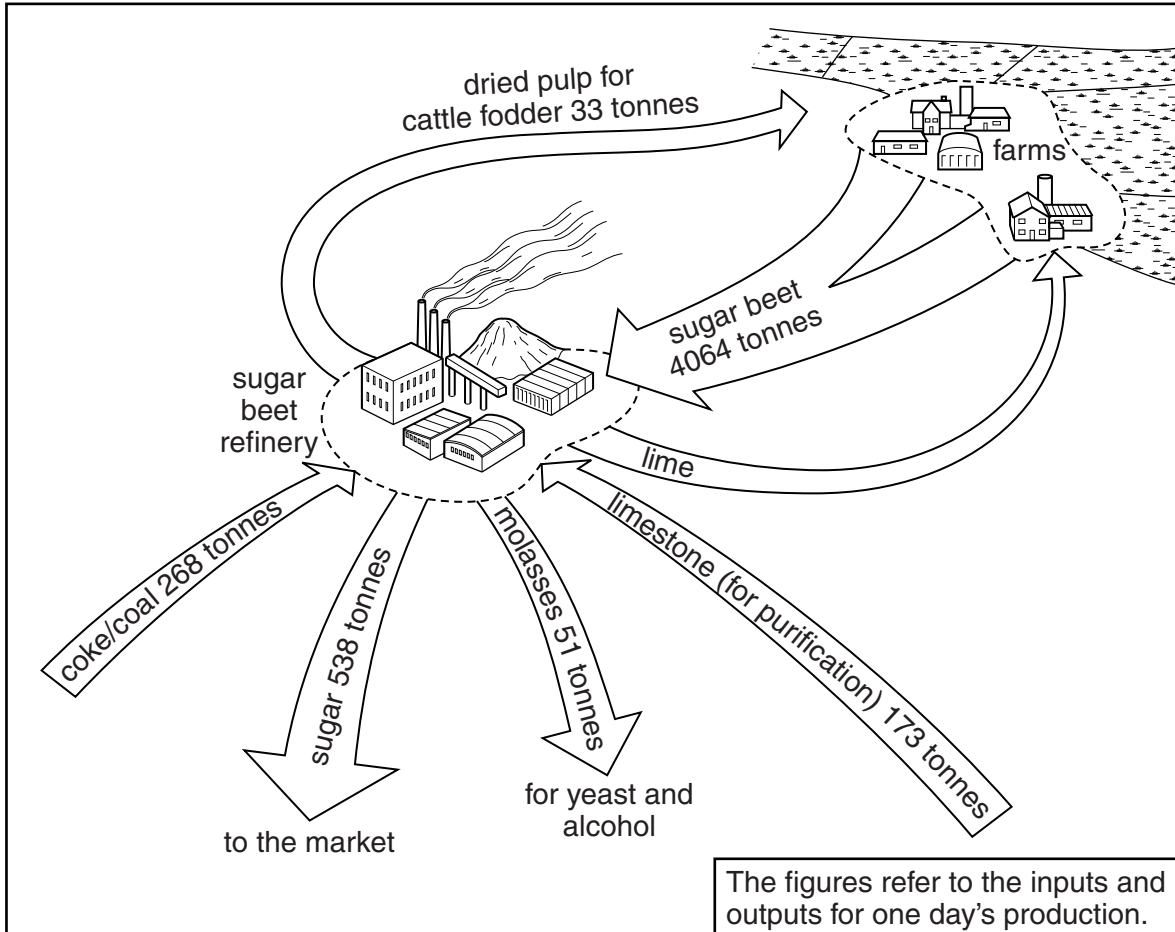


Fig. 9

(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]

QUESTION 6

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

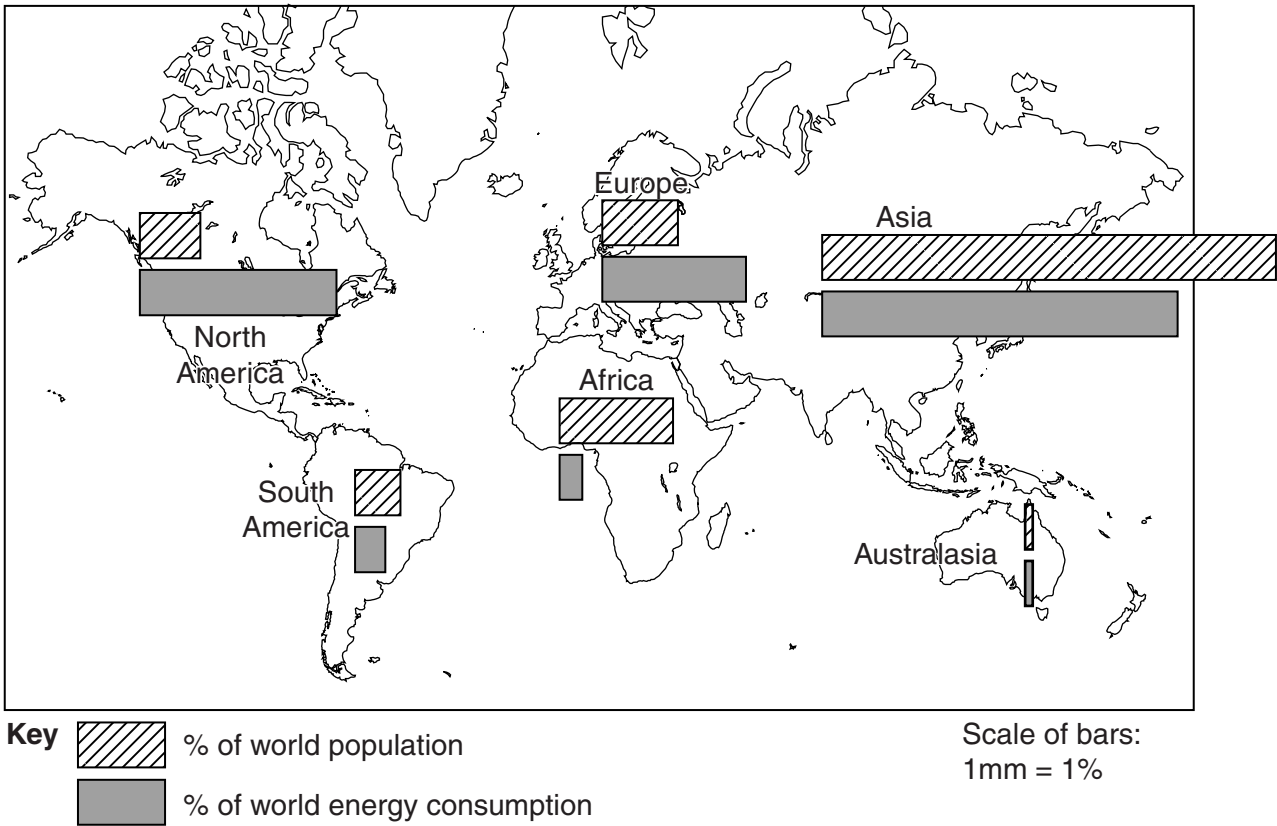


Fig. 10

(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]

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.