

CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

GEOGRAPHY

0460/03

Paper 3

May/June 2003

1 hour 30 minutes

Additional Materials: Answer Booklet/Paper
Ruler
Protractor

1:25 000 survey map is enclosed with this question paper.

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.
Write your Centre number, candidate number and name on all the work you hand in.
Write in dark blue or black pen on both sides of the paper.
You may use a soft pencil for any diagrams, graphs or rough working.
Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer **all** questions.

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

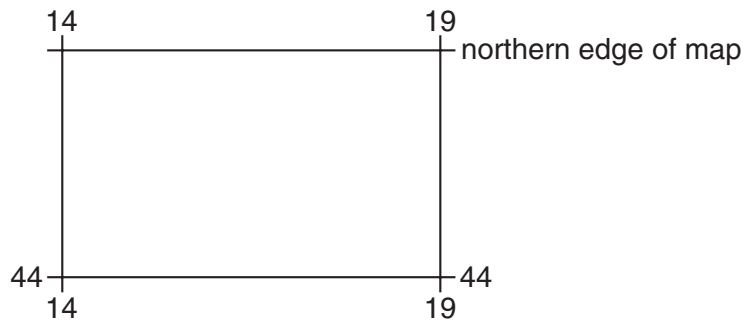
The number of marks is given in brackets [] at the end of each question or part question.

The insert contains Fig. 3 for Question 4.

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

This document consists of **9** printed pages, **3** blank pages and an insert.

- 1 Study the map extract provided, which is part of the island of Saint Lucia on the scale 1:25 000, and answer the following questions.
- (a) (i) What type of building is found at grid reference **165415**? [1]
- (ii) Give the six figure grid reference of the garment factory which is situated in the south of the map beside the surfaced road which runs westwards from Dennery. [1]
- (b) Find the main trigonometrical stations at grid references **182424** and **202443**.
- (i) Give the compass direction of the main trigonometrical station at **202443** from the main trigonometrical station at **182424**. [1]
- (ii) Measure the distance between the trigonometrical stations and give your answer in metres. [1]
- (c) Describe the natural vegetation found in square **1643**. [4]
- (d) Name **two** crops grown in the areas of cultivation and plantation. *Use evidence from the map only.* [1]
- (e) Why is there no settlement in the area of the map north of northing **44** and west of easting **19**? [4]



- (f) Describe the services provided in the settlement of Dennery in the south-east of the map. [3]
- (g) Describe the physical features of the coastline. [4]

2 Study Fig. 1 which shows a wet and dry bulb thermometer (hygrometer) used at a school weather station.

- (a) Write down **P**, **Q**, **R**, **S** as a list and name the features of the instrument labelled on Fig. 1 [2]
- (b) Calculate the depression of the wet bulb and explain how you arrived at your answer. [2]
- (c) Using Table 1 and the temperatures shown on the two thermometers in Fig. 1, calculate the relative humidity. [1]
- (d) Explain what is meant by the term 'relative humidity'. [1]

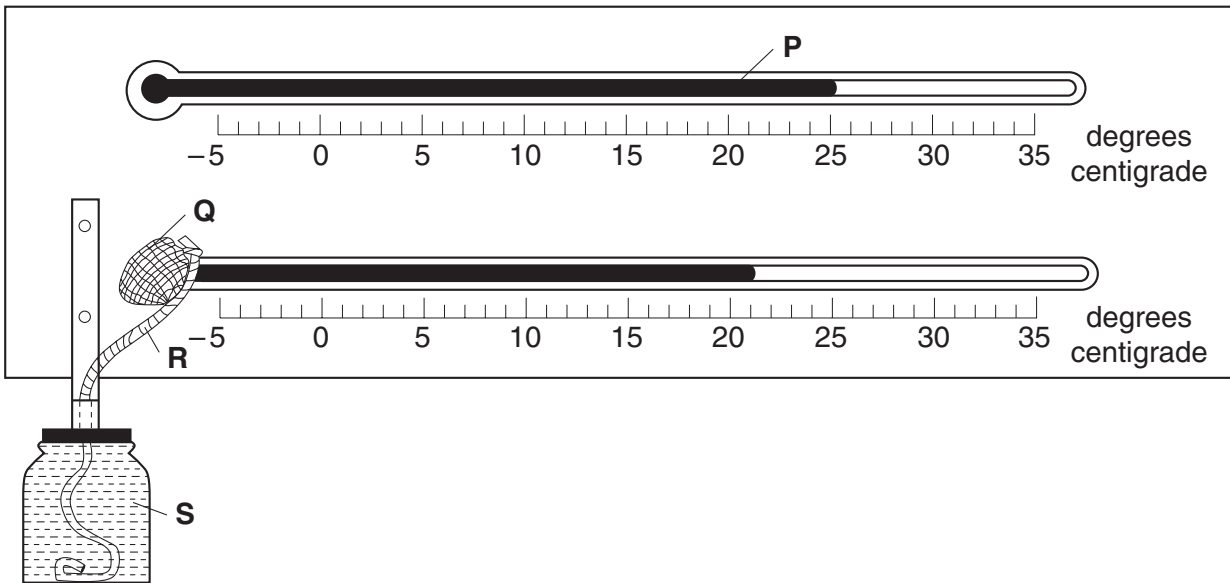


Fig. 1

Table 1

Dry bulb reading °C	Depression of wet bulb						
	1°	2°	3°	4°	5°	6°	7°
	%	%	%	%	%	%	%
30	93	86	79	73	67	61	55
25	92	84	77	70	63	57	50
20	91	83	74	66	59	51	44

3 Fig.2 shows four stages in population development of world areas and two population pyramids, **A** and **B**.

(a) Write down **A** and **B** as a list and against each letter state in which stage of population development, **1, 2, 3, or 4**, the population pyramid would be found. [2]

(b) Give reasons why you chose the stage of

(i) pyramid **A**, [1]

(ii) pyramid **B**. [1]

(c) Identify by letter a stage of population development where there is a period of decline in population. Give **one** reason for your answer. [1]

(d) State, giving a reason for your answer, in which stage there would be the greatest increase in population. [1]

Diagram to show the four general stages of population development likely to be experienced by any area in the world

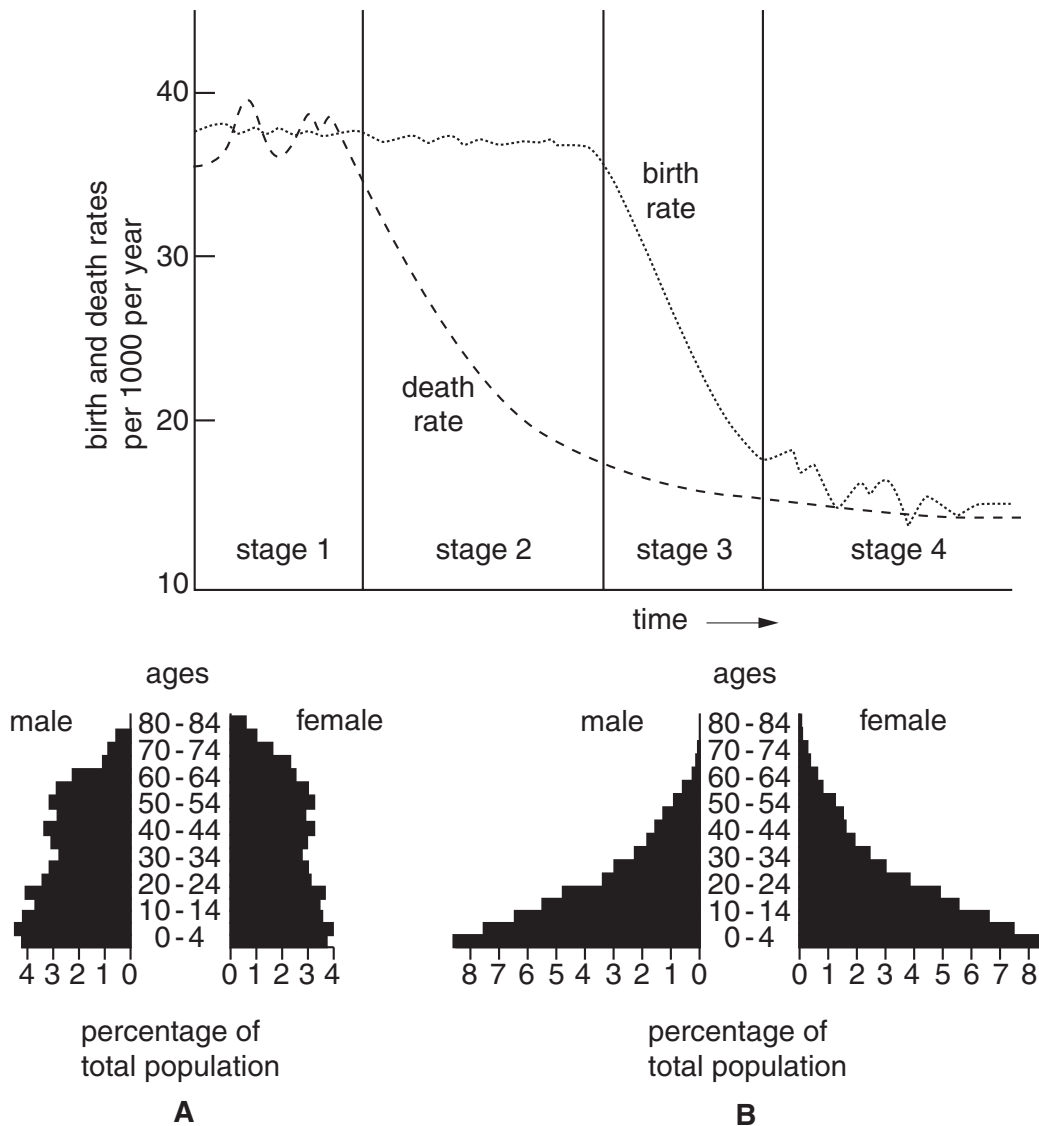


Fig.2

4 Study the graphs (Fig. 3, Insert) which show the employment structure in three countries **A**, **B**, **C**.

(a) Complete the pie graph for country **A** using the following figures:

Primary industry	80%
Secondary industry	15%
Tertiary industry	5%

Use the key provided in Fig. 3 [2]

(b) What percentage of the people is employed in tertiary industry in country **C**? [1]

(c) State which of the countries, **B** or **C**, is a developing country and give reasons for your choice. [3]

5 Study Fig. 4 which shows changes which have taken place in a village over a period of 40 years (1960–2000).

- (a) How have the farm buildings changed between 1960 and 2000? [1]
- (b) What name would be given to the people who, in the year 2000, live in the village but work elsewhere? [1]
- (c) Name the services which the village lost between the year 1960 and the year 2000. [2]
- (d) Name the services which the village has gained during the forty year period. [3]

Changes in a village (1960 - 2000)

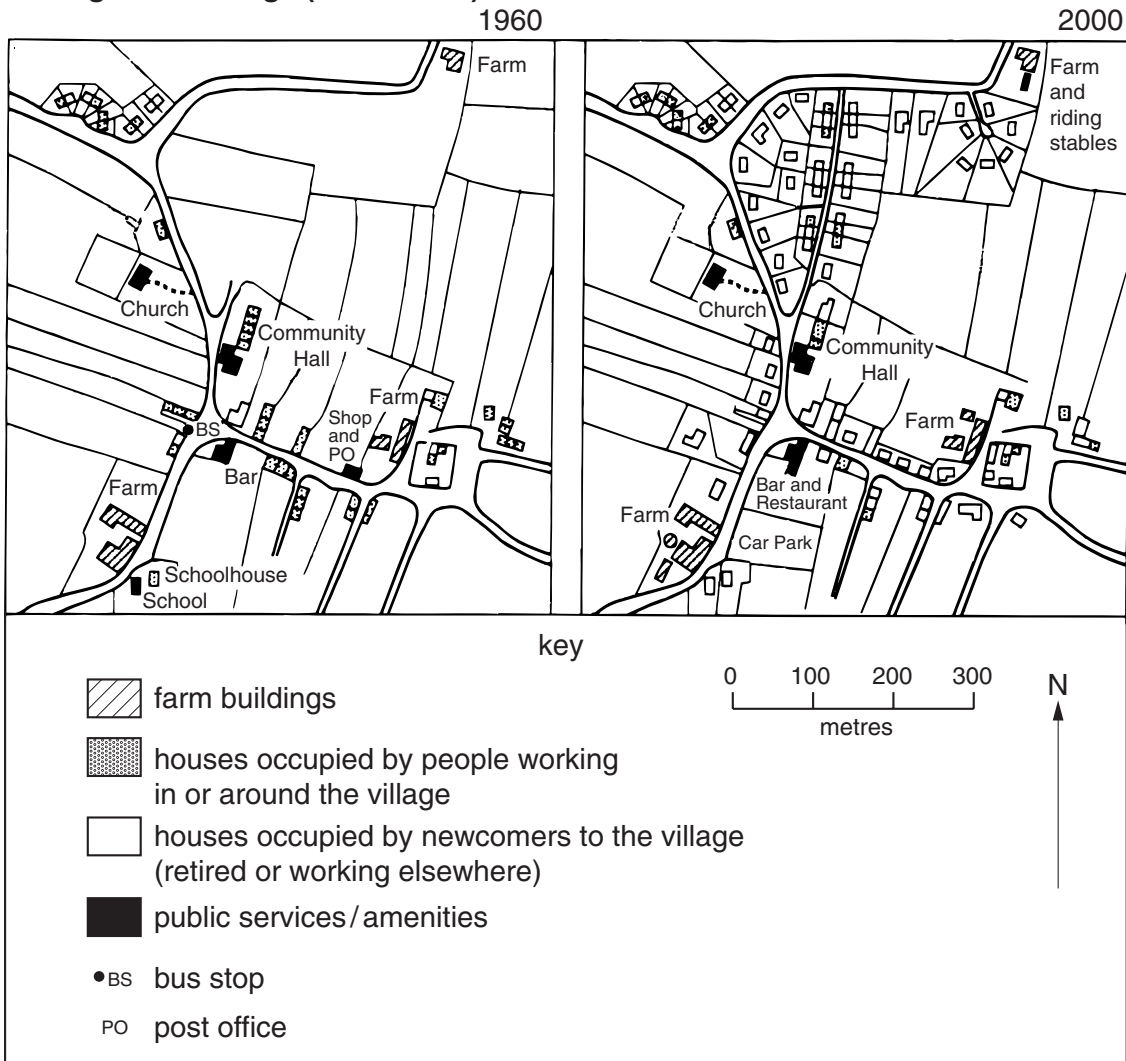


Fig. 4

6 (a) Study Fig. 5 which shows the main plates of the earth's crust.

(i) What is a plate? [1]

(ii) Name **two** plates which meet along the west coast of South America. [1]

(iii) State what is happening to the plates at **X** on Fig. 5 [1]

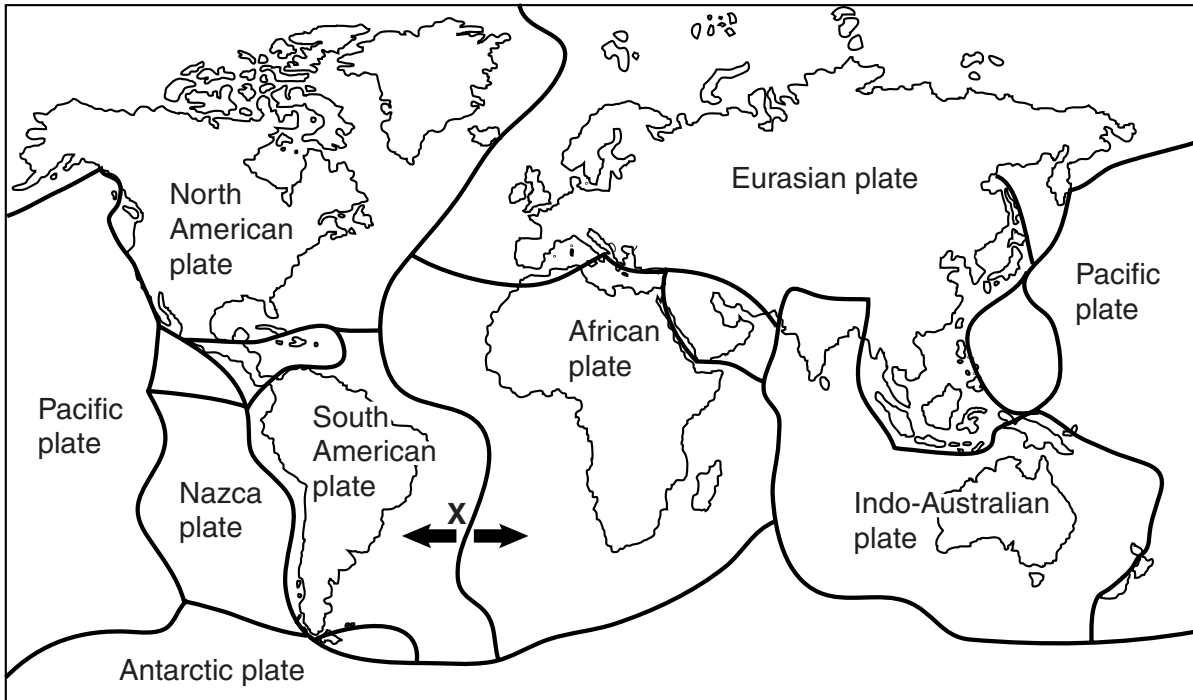


Fig. 5

(b) Fig. 6 shows an area affected by an earthquake.

- (i) What is the term used for the point **Y**, shown on Fig. 6, which is on the earth's surface directly above the origin of the earthquake? [1]
- (ii) Which of the settlements, shown on Fig. 6, is likely to experience the greatest damage as a result of the earthquake? Give **one** reason for your answer. [2]
- (iii) Apart from damage to settlements, suggest **two** other problems which might be the result of the earthquake in the area shown in Fig. 6. [2]

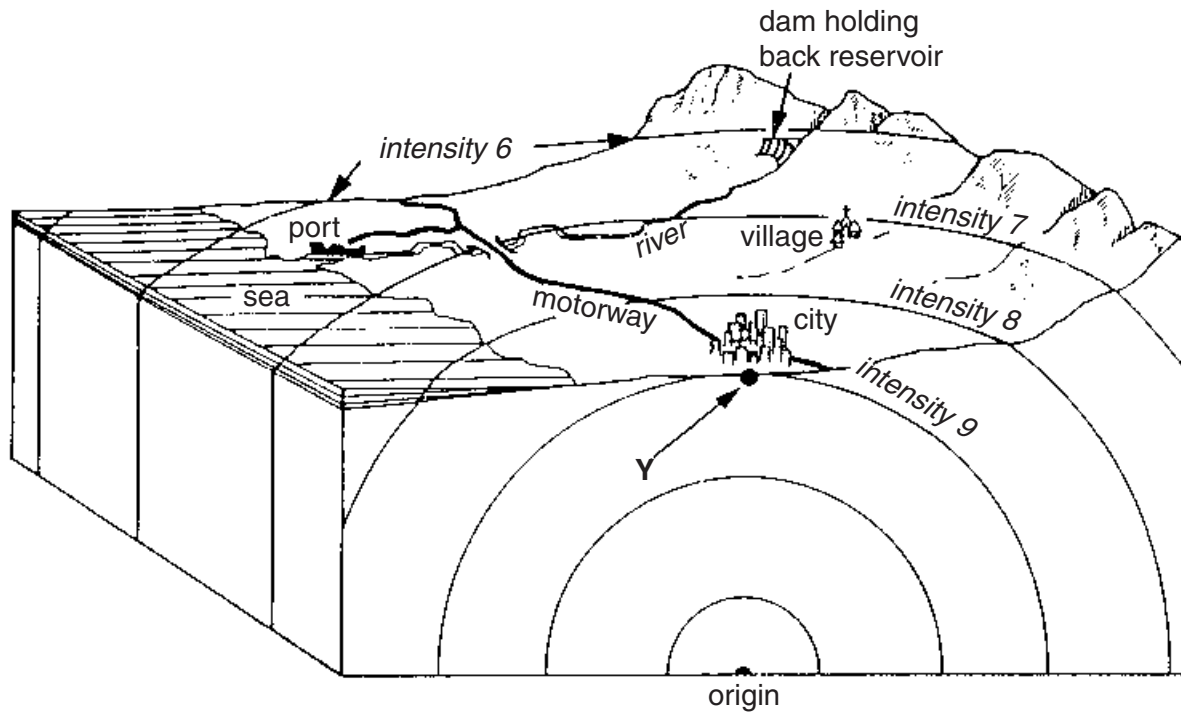


Fig. 6

7 Fig. 7 shows measures adopted to improve the traffic flow in a city.

(a) How have traffic planners reduced the amount of 'through traffic' in this city? [2]

(b) How has public road transport been speeded up in this city? [1]

(c) State the other methods, shown on Fig. 7, which will help to reduce traffic congestion in the city centre. [4]

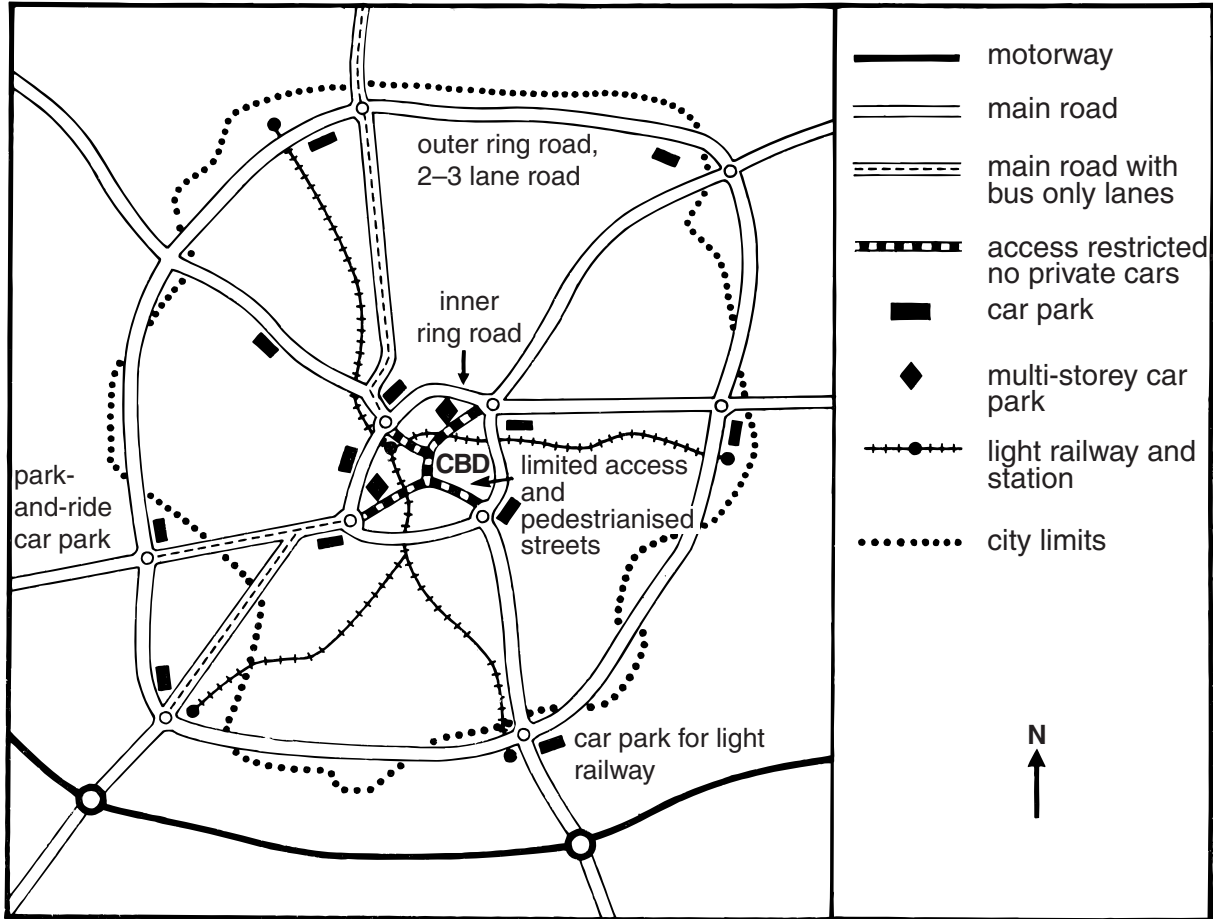


Fig. 7

