



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

CANDIDATE
NAME

CENTRE
NUMBER

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GEOGRAPHY

Paper 2

0460/22

May/June 2012

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler
 Protractor
 Plain paper

1:50 000 Survey Map Extract is enclosed with this question paper.

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.

Answer **all** questions.

The Insert contains Photographs A and B for Question 4, and Photographs C, D and E for Question 6.
The Survey Map Extract and the Insert are **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 **13** printed pages, **3** blank pages and **1** Insert.



1 Study the map extract, which is for Chinhgi, Zimbabwe. The scale is 1:50 000.

(a) Fig. 1 shows some of the features in the south west part of the map extract.

Study Fig. 1 and the map extract, and answer the questions below.

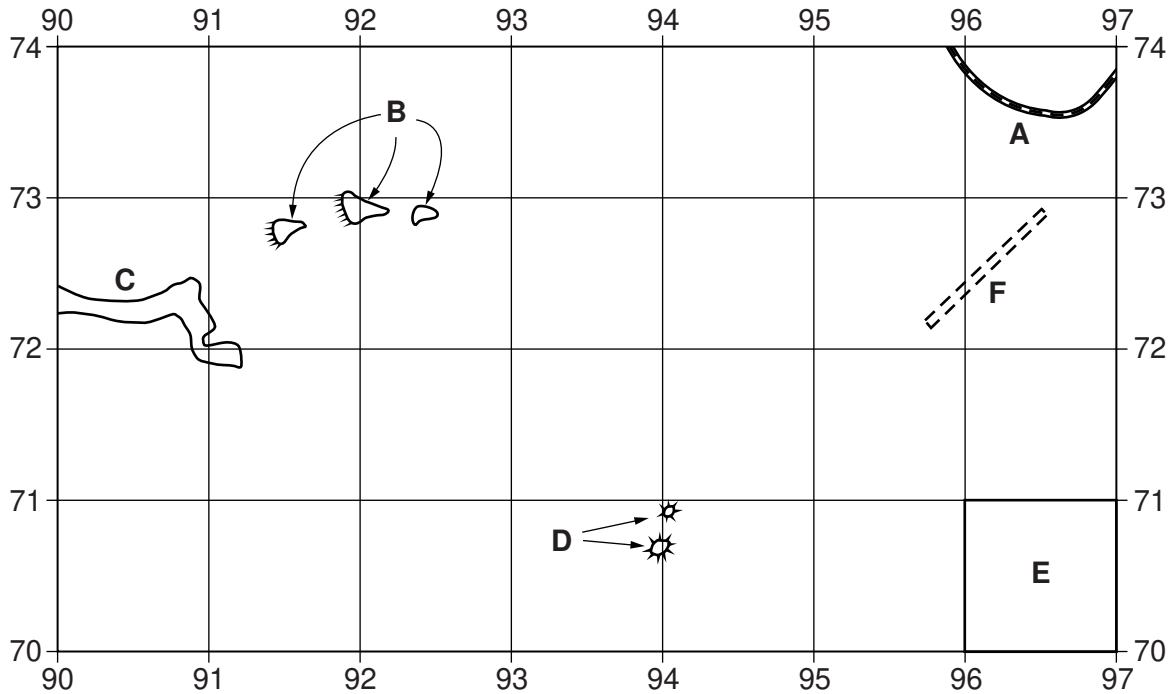


Fig. 1

Using the map extract, identify the following features shown on Fig. 1:

- (i) feature **A**;
..... [1]
- (ii) the features at **B**;
..... [1]
- (iii) the type of land in area **C**;
..... [1]
- (iv) the features at **D**;
..... [1]
- (v) the main land use in area **E**;
..... [1]
- (vi) feature **F**.
..... [1]

- (b) Look at the main river in the east of the map extract. Which **four** of the following statements about the river are true? Tick **four** boxes in the table below.

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Statement	Tick (✓)
The river flows towards the east	
The river is between 100 and 500 metres wide	
There are bridges across the river	
The river runs through orchard or plantation	
The river has fewer than four tributaries	
There are waterfalls on the river	
There is a dam on the river	
The river flows across land lower than 500 metres above sea level	
There are islands in the river	
There are rapids on the river	

[4]

- (c) Fig. 2 is cross section of the river valley along northing 75 from 010750 to 060750.

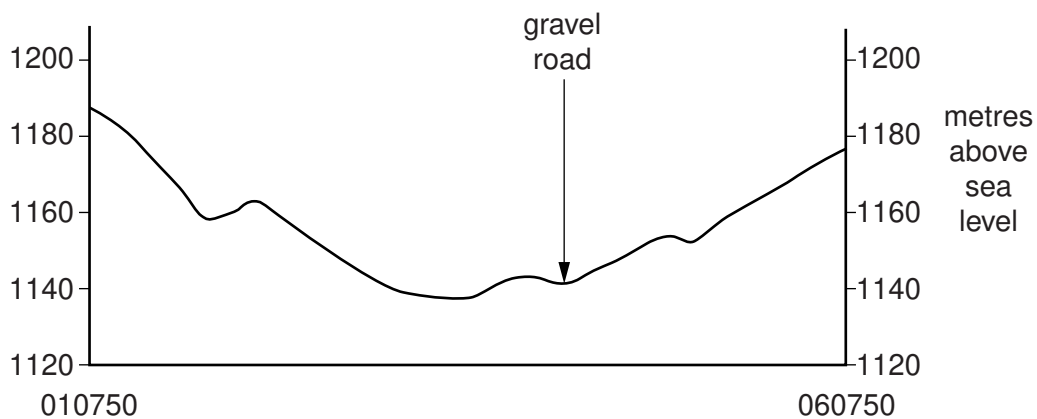


Fig. 2

On Fig. 2, using labelled arrows, mark the positions of:

- (i) the flood plain of the river; [1]
- (ii) a group of huts; [1]
- (iii) a track. [1]

(d) Fig. 3 shows the map area containing the main industrial area at Chinhgi.

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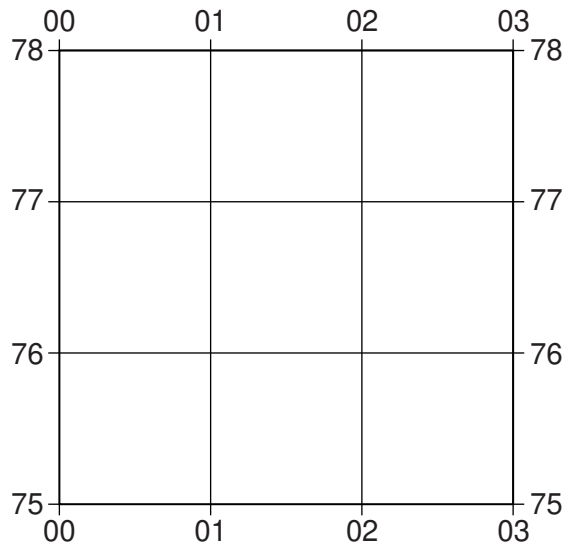


Fig. 3

Using map evidence in your answer, how is the industrial area in the area shown in Fig. 3 supplied with:

transport;

.....

power;

.....

labour?

..... [3]

(e) A person travels from the industrial area at Chinhgi, in the area shown on Fig. 3, along the tarred road, towards the south west and to the southern edge of the map.

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- (i) Look at the straight part of the tarred road. On which compass bearing from grid north does the person travel along this part of the road? Tick (✓) **one** correct answer in the table below.

Bearing	Tick (✓)
53°	
143°	
233°	
243°	

[1]

- (ii) About 5 km from the industrial area, the tarred road comes to an end. Give the six figure grid reference of this point.

..... [1]

- (iii) After the tarred road has ended, what type of road continues to the southern edge of the map?

..... [1]

- (iv) What is the main land use on either side of the last 3 km of road before the southern edge of the map?

..... [1]

[Total: 20 marks]

- 2 Fig. 4 shows plates and plate margins in South America and the surrounding area. In 2010 major earthquakes occurred in Haiti and Chile. The locations of these earthquakes are shown on Fig. 4.

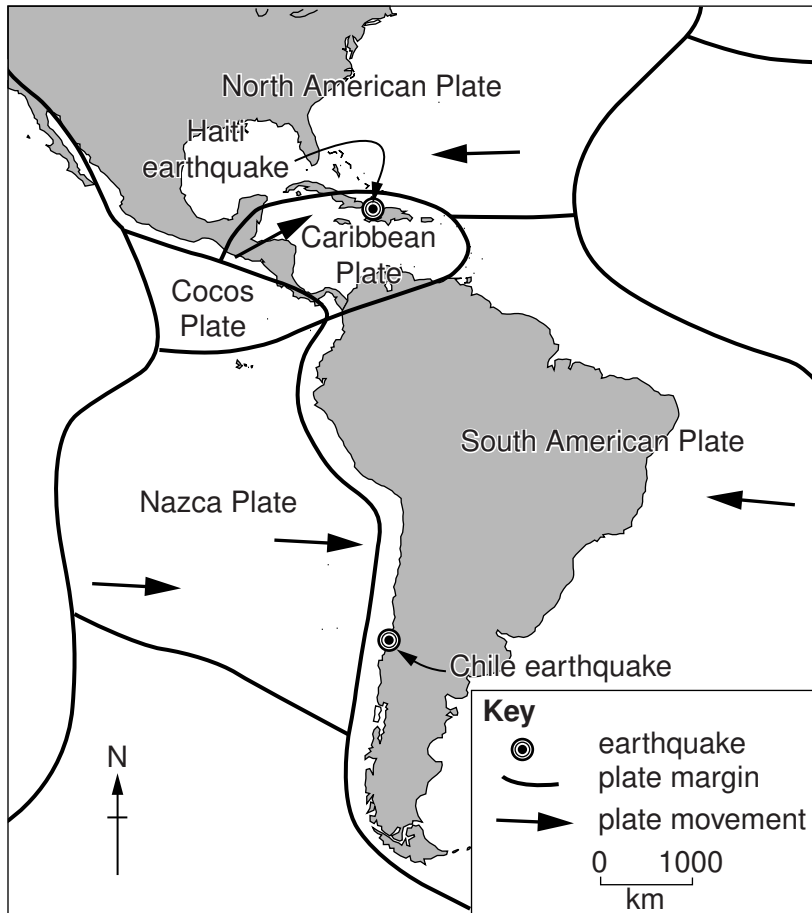


Fig. 4

- (a) Complete the following paragraph.

“At Haiti, the North American Plate is sliding past the
Plate.

Off the coast of Chile the South American Plate collides with the
..... Plate.”

[2]

(b) (i) What type of plate margin occurs off the coast of Chile? Tick **one** correct answer in the table below.

Type of plate margin	Tick (✓)
constructive	
destructive	
conservative	

[1]

(ii) Using information from Fig. 4 and your own knowledge, explain the cause of the Chile earthquake.

.....

.....

.....

.....

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[3]

(c) Table 1 compares the Haiti and Chile earthquakes.

Table 1

	Haiti earthquake	Chile earthquake
Date	January 12 2010	February 27 2010
Value on Richter scale	7.0	8.8
Number of deaths	230 000	423
Distance to nearest large town	15 km (Port au Prince)	100 km (Concepcion)
Depth of focus	13 km	35 km

Using information from Table 1 **only**, explain why the number of deaths caused by the two earthquakes was so different.

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[2]

[Total: 8 marks]

3 Study Fig. 5 which shows population pyramids for Philippines, Germany and Brazil in 2010, then answer the questions on the opposite page.

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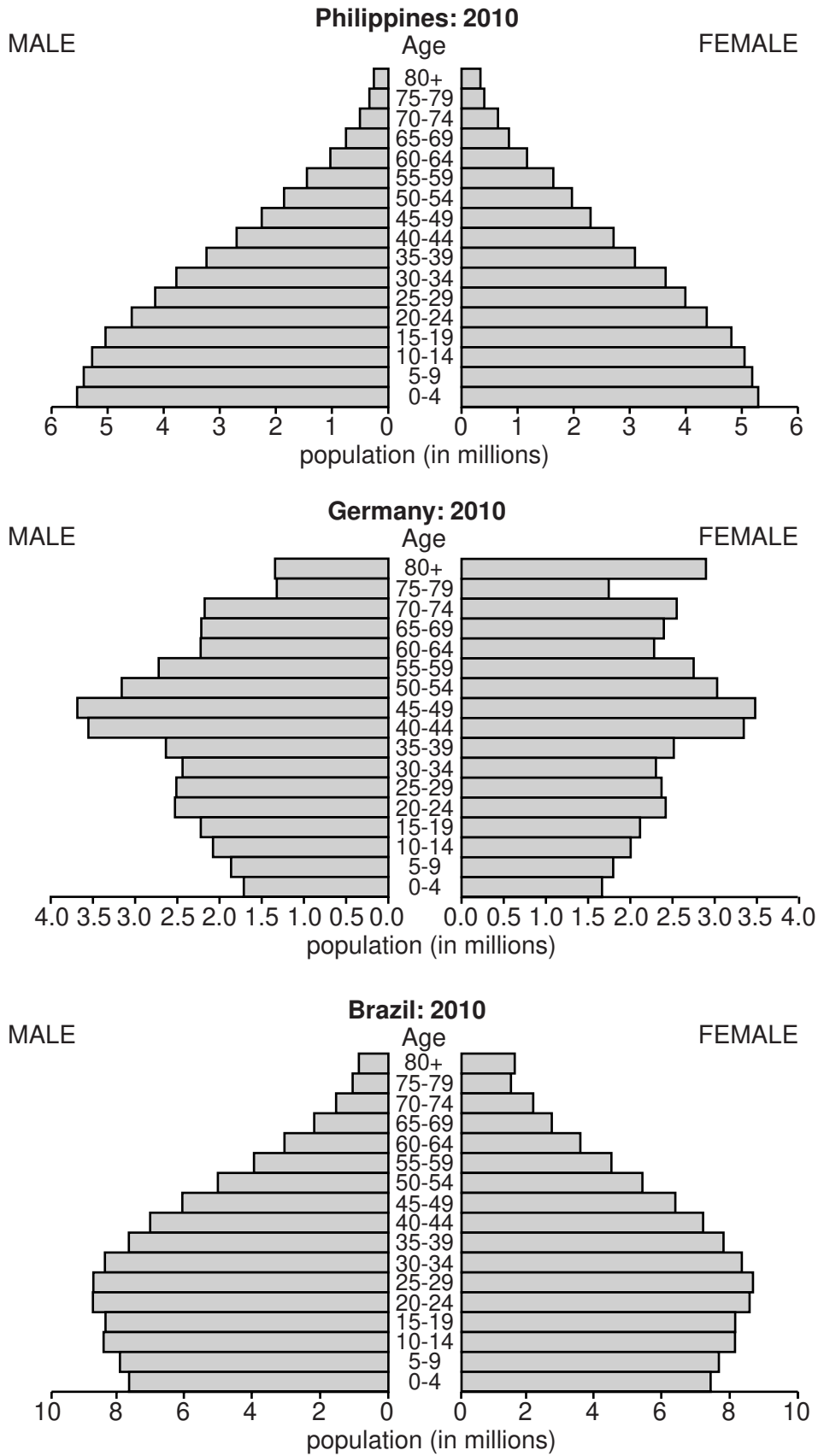


Fig. 5

(a) Look at the horizontal scales of the population pyramids, showing population in millions.

(i) What was the total male population of Philippines aged 15–19?
..... [1]

(ii) Which **one** of the three countries has the smallest population?
..... [1]

(iii) Some other population pyramids show the horizontal scale as a percentage of the total population. Give **one** advantage of this method.
.....
..... [1]

(iv) Which **one** of the three countries shown in Fig. 5 has the greatest **percentage** of:
A young dependents; [1]
B old dependents? [1]

(b) Fig. 6 shows the stages of the demographic transition model.

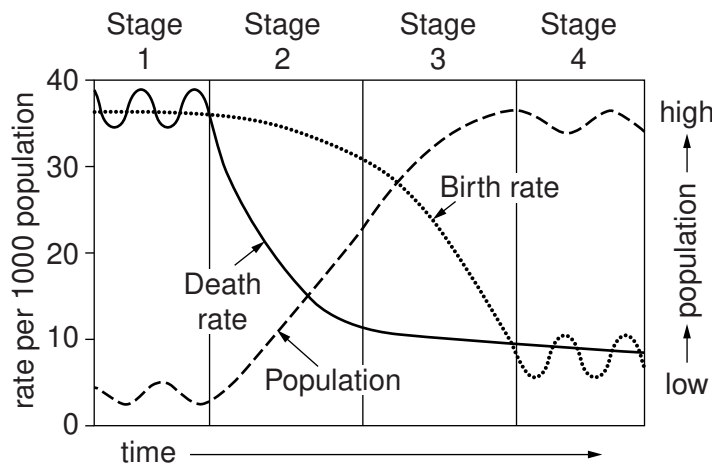


Fig. 6

Using Figs 5 and 6, which **one** of the three countries shown in Fig. 5 is in:

(i) Stage 2; [1]
(ii) Stage 3; [1]
(iii) Stage 4? [1]

[Total: 8 marks]

4 Photographs A and B (Insert) show parts of the same coastal area. Describe the geographical features shown in the photographs. You may refer to the sea, the coastline and the land next to the sea.

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[Total: 8 marks]

5 Fig. 7 is a map of an irrigated farm in an LEDC. Study Fig. 7 and answer the questions on the opposite page.

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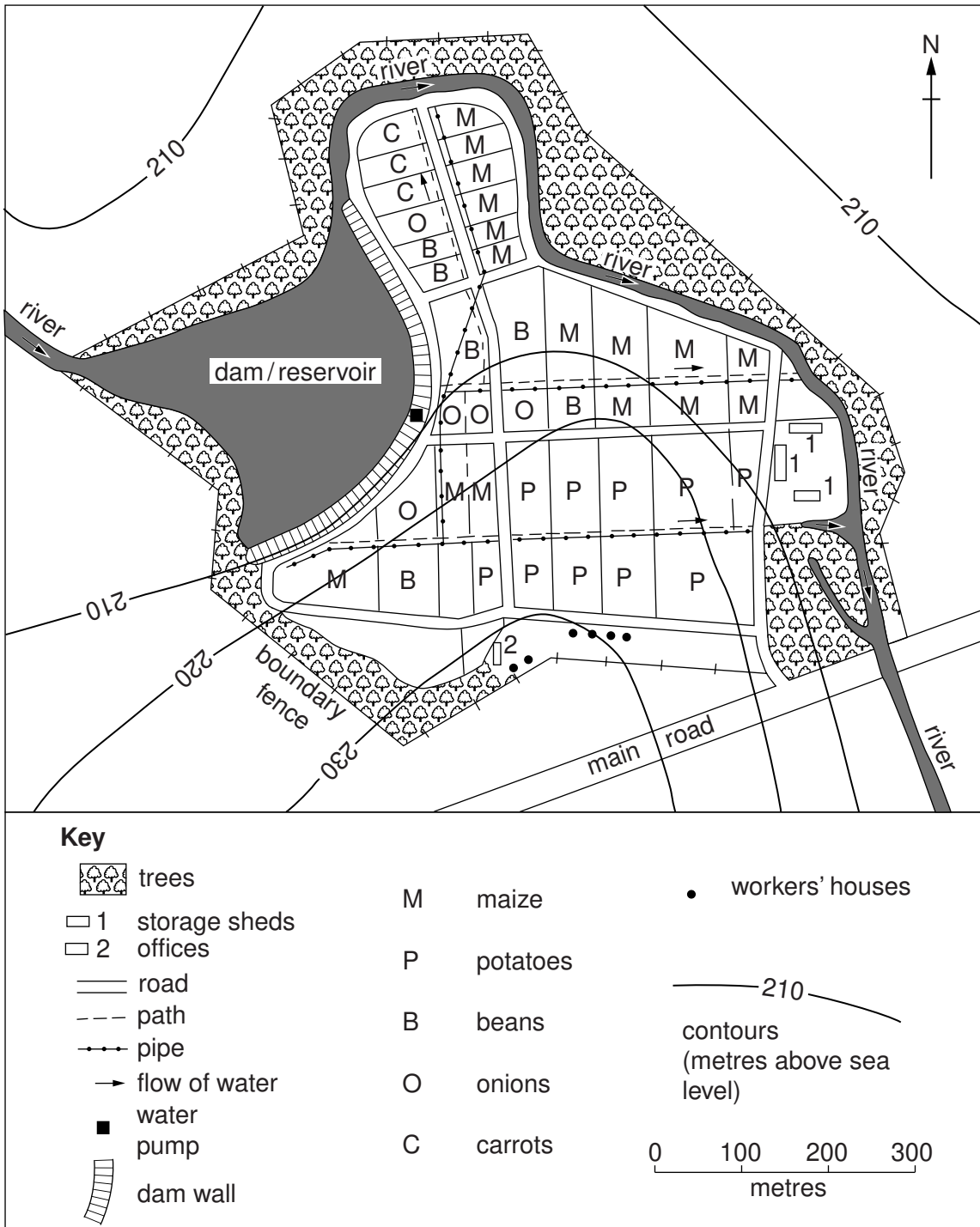


Fig. 7

(a) (i) Use information from Fig. 7 to complete Fig. 8.

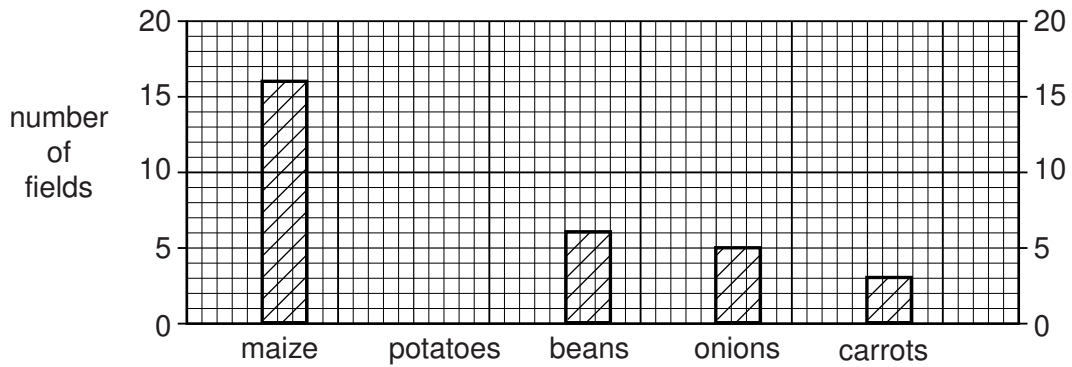


Fig. 8

[1]

(ii) Suggest why the information in Fig. 8 about number of fields may not be a useful way of showing the importance of the different crops on the farm.

.....

.....

.....

..... [2]

(b) On Fig. 7 (page 12):

(i) shade the area between 220 and 230 metres above sea level; [1]

(ii) draw a line to show the shortest road route between the water pump and the offices. [1]

(c) (i) Describe how water is supplied from the dam to the fields.

.....

..... [1]

(ii) Explain why the area of the potato crop is the most difficult area of the farm to supply with irrigation water from the dam.

.....

.....

.....

..... [2]

[Total: 8 marks]

6 Photographs C, D and E (Insert) show three areas where tourism is an important industry.

(a) Describe **six** tourist attractions or activities shown in the photographs. Choose at least **one** attraction or activity from each photograph.

Photograph

Tourist attraction or activity

.....

Photograph

Tourist attraction or activity

.....

Photograph

Tourist attraction or activity

.....

Photograph

Tourist attraction or activity

.....

Photograph

Tourist attraction or activity

.....

Photograph

Tourist attraction or activity

..... [6]

(b) Suggest **two** possible disadvantages that tourism might cause in the area shown in Photograph C.

1

.....

2

..... [2]

[Total: 8 marks]

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Copyright Acknowledgements:

Question 5 Fig. 7 © McLeod; *A Certificate Geography of Lesotho*; Longman Lesotho; 1989.
Photographs A, B, C, D & E D A Kelly © UCLES.

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