Cambridge IGCSE

Cambridge International Examinations
Cambridge International General Certificate of Secondary Education

CANDIDATE NAME	
CENTRE NUMBER	
CANDIDATE NUMBER	

3123242964

GEOGRAPHY **0460/22**

Paper 2 **October/November 2014**

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials: Ruler
Protractor
Plain paper
Calculator

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 an HB pencil for any diagrams or graphs.
Do not use staples, paper clips, glue or correction fluid.
DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

The Insert contains Photograph A for Question 3 and Photograph B for Question 4.
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.

This document consists of **15** printed pages, **1** blank page and **1** Insert.

CAMBRIDGE International Examinations

[Turn over

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

(a) Fig. 1 shows some of the features in the north west part of the map extract. Study Fig. 1 and the map extract, and answer the questions below.

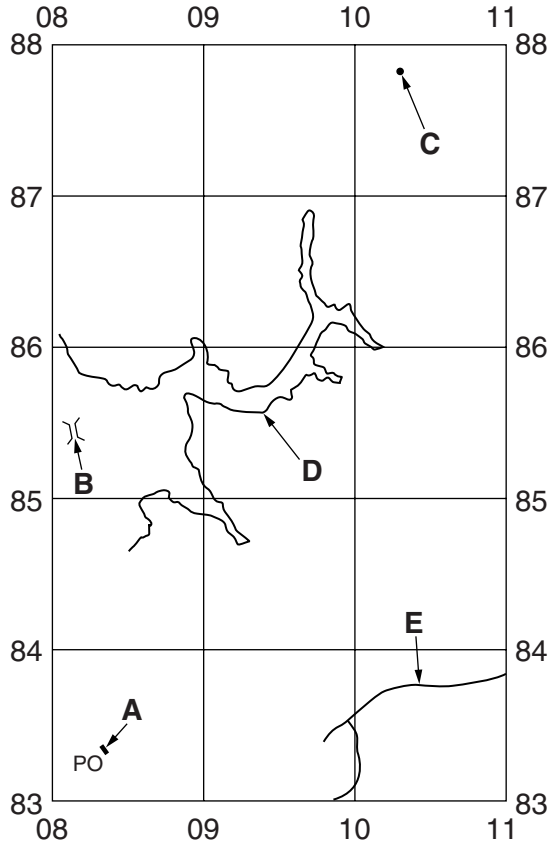

Fig. 1

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

(i) feature **A**;

..... [1]

(ii) feature **B**;

..... [1]

(iii) the height above sea level of the spot height at **C**;

..... [1]

(iv) the height above sea level of the contour at **D**;

..... [1]

(v) the type of road at **E**.

..... [1]

(b) Find the Big Ben mining area (1681,1680) in the east of the map extract. Give map evidence for mining in this area.

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..... [4]

(c) Find Mt Cazalet and Spitzkop hill in the west of the map extract.

(i) Give the six figure grid reference for the trigonometrical station at the top of Mt Cazalet.

..... [1]

(ii) Give the bearing from grid north to the top of Spitzkop hill **from** the top of Mt Cazalet.

..... degrees [1]

(iii) Give the compass direction to the top of Spitzkop hill **from** the top of Mt Cazalet.

..... [1]

[Turn over

(d) Fig. 2 is a cross section along northing 78 from 100780 to 150780.

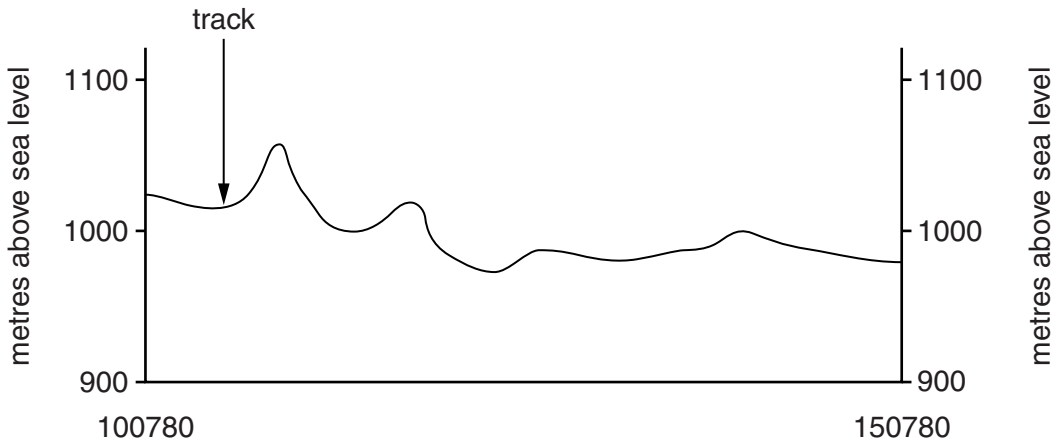

Fig. 2

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

(i) the wide tarred road; [1]

(ii) the 33 kV power line; [1]

(iii) the railway. [1]

(e) Fig. 3 shows the location of two areas in the north of the map extract. These are Judds Farm and Exchange. Study the two areas and answer the questions below.

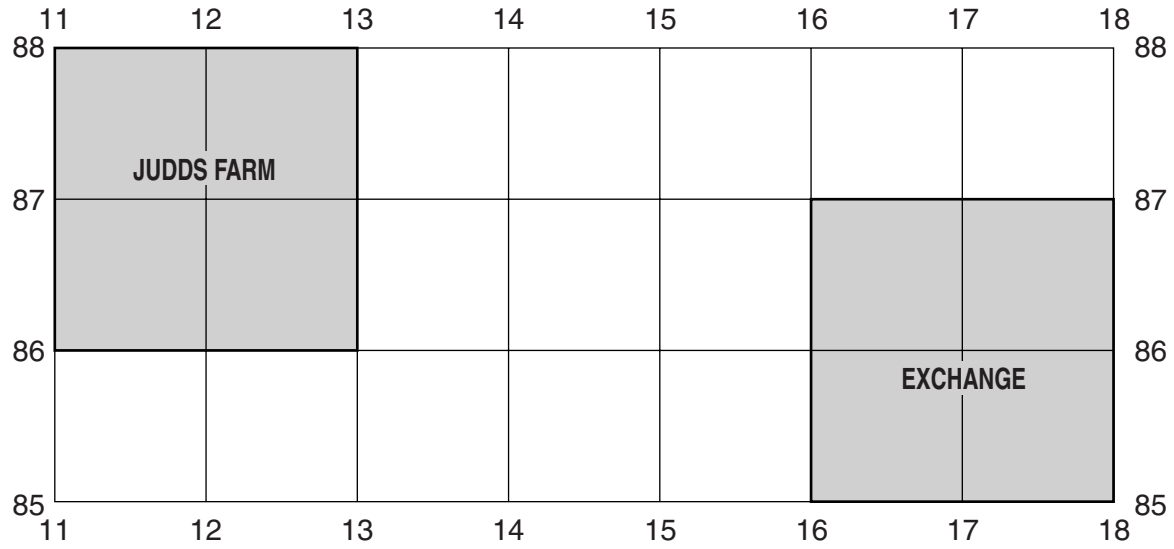

Fig. 3

The table below compares the features of the two areas. Complete the table by putting ticks in the correct **five** boxes. Use only **one** tick for each row.

	area at Judds Farm	area at Exchange	both these areas	neither of these areas
Example: tarred road				✓
track, cut line or game trail				
dip tank				
reservoir				
flat or gently sloping land				
drainage flows to the west				

[5]

[Total: 20 marks]

2 Fig. 4 shows three instruments, **A**, **B** and **C**, kept at a weather station. Study Fig. 4 and answer the questions on the opposite page.

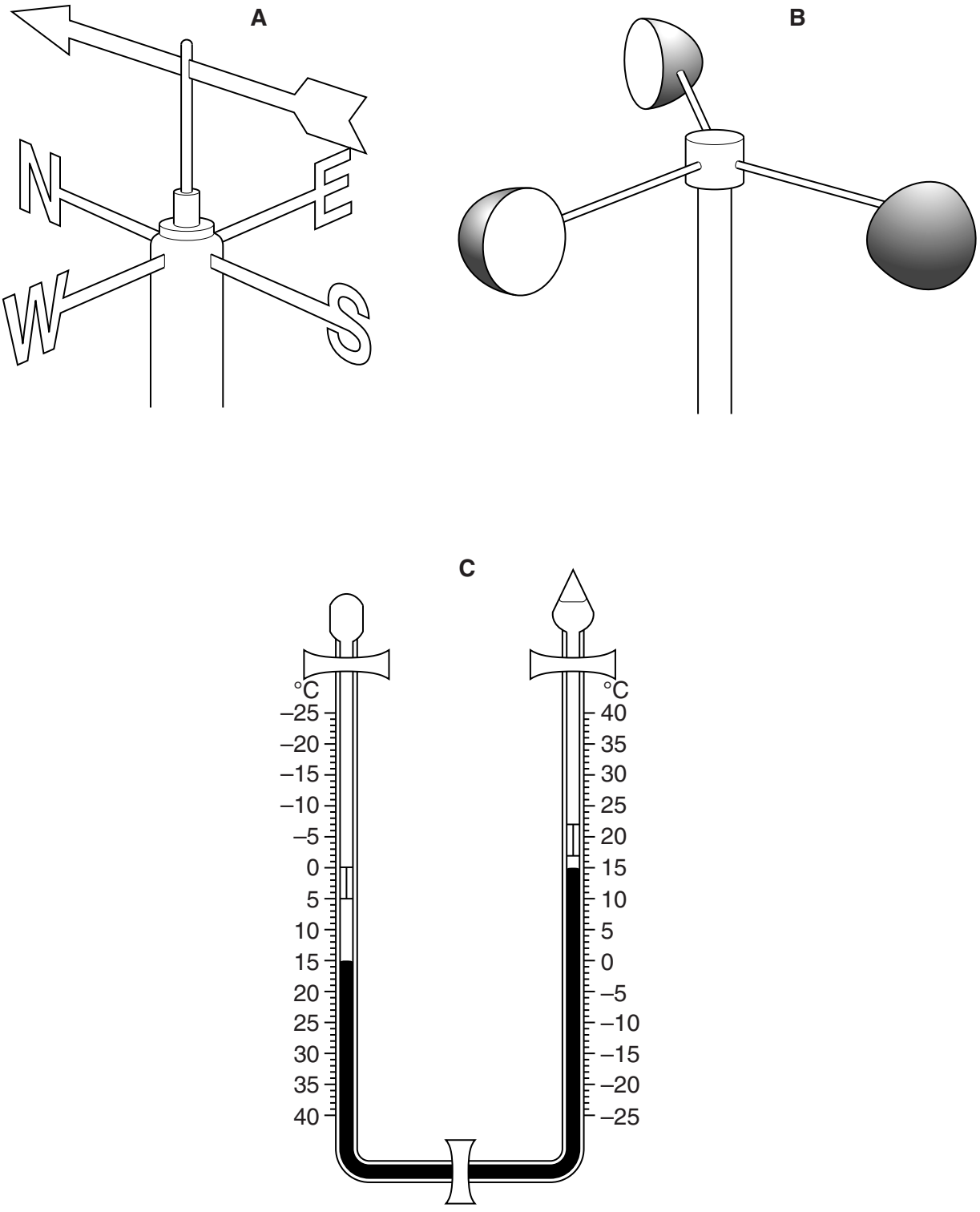

Fig. 4

(a) Identify instruments **A**, **B** and **C**.

A .....

B .....

C ..... [3]

(b) Using instrument **A** on Fig. 4, state the direction from which the wind is blowing.

..... [1]

(c) On Fig. 4, label the position of the alcohol in instrument **C**. [1]

(d) Using the information from instrument **C** on Fig. 4, state:

(i) the coldest temperature since the instrument was re-set;

..... [1]

(ii) the hottest temperature since the instrument was re-set;

..... [1]

(iii) the current temperature.

..... [1]

[Total: 8 marks]

3 Photograph A (Insert) shows an area of tropical rainforest.

(a) Describe the vegetation shown in the photograph.

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..... [4]

(b) Study Fig. 5, which shows the climate of the area shown in Photograph A.

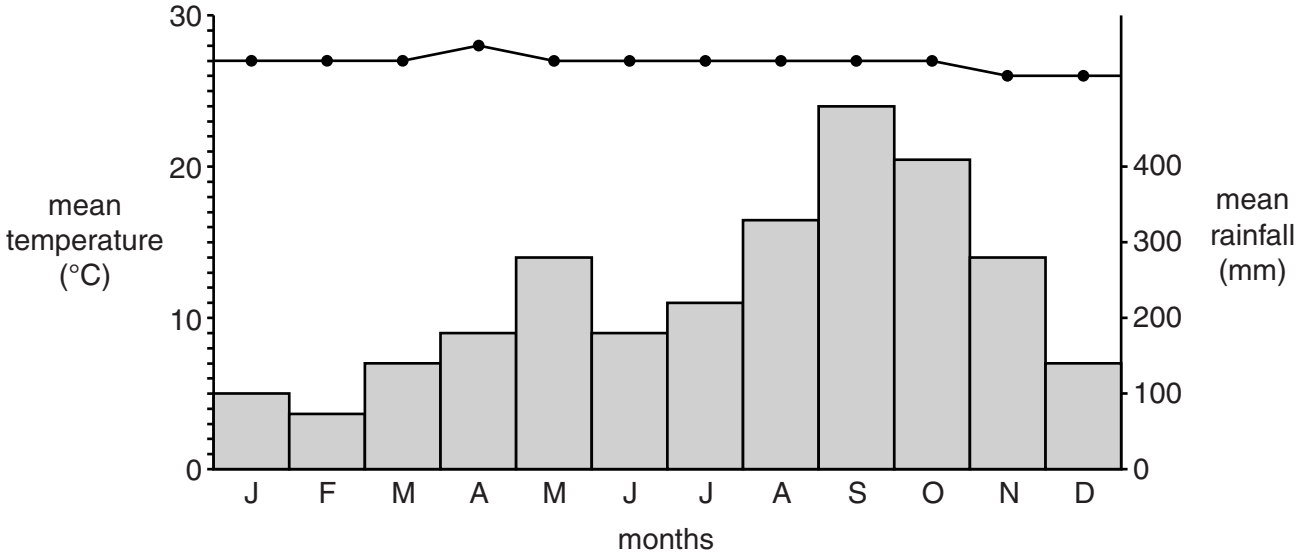

Fig. 5

Use the information in Fig. 5 to complete the table below.

Feature of the climate	Amount	Description
mean temperature of the hottest month	.....°C	hot
mean temperature of the coldest month	26 °C	.....
annual temperature range	.....°C	very low
annual rainfall	2790 mm	.....

[4]

[Total: 8 marks]

4 **(a)** Photograph B (Insert) shows a settlement in the Caribbean. Describe the housing shown in the photograph.

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..... [5]

(b) Table 1 shows the population and services of five settlements.

Table 1

Settlement	Population	Number of services				
		primary schools	convenience stores	doctors' surgery	supermarkets	secondary schools
A	956	1	4	1	0	0
B	7931	1	7	1	0	0
C	438	0	2	0	0	0
D	10842	3	8	2	2	1
E	8962	2	7	1	1	0

(i) What is the minimum population needed for a settlement to have a supermarket?

..... [1]

(ii) List the settlements shown in Table 1 (**A**, **B**, **C**, **D** or **E**) in order of importance in a settlement hierarchy below.

Settlement

highest

.....

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.....

lowest

[2]

[Total: 8 marks]

5 Fig. 6 gives information about the output from subsistence agriculture in the regions of Cameroon, West Africa.

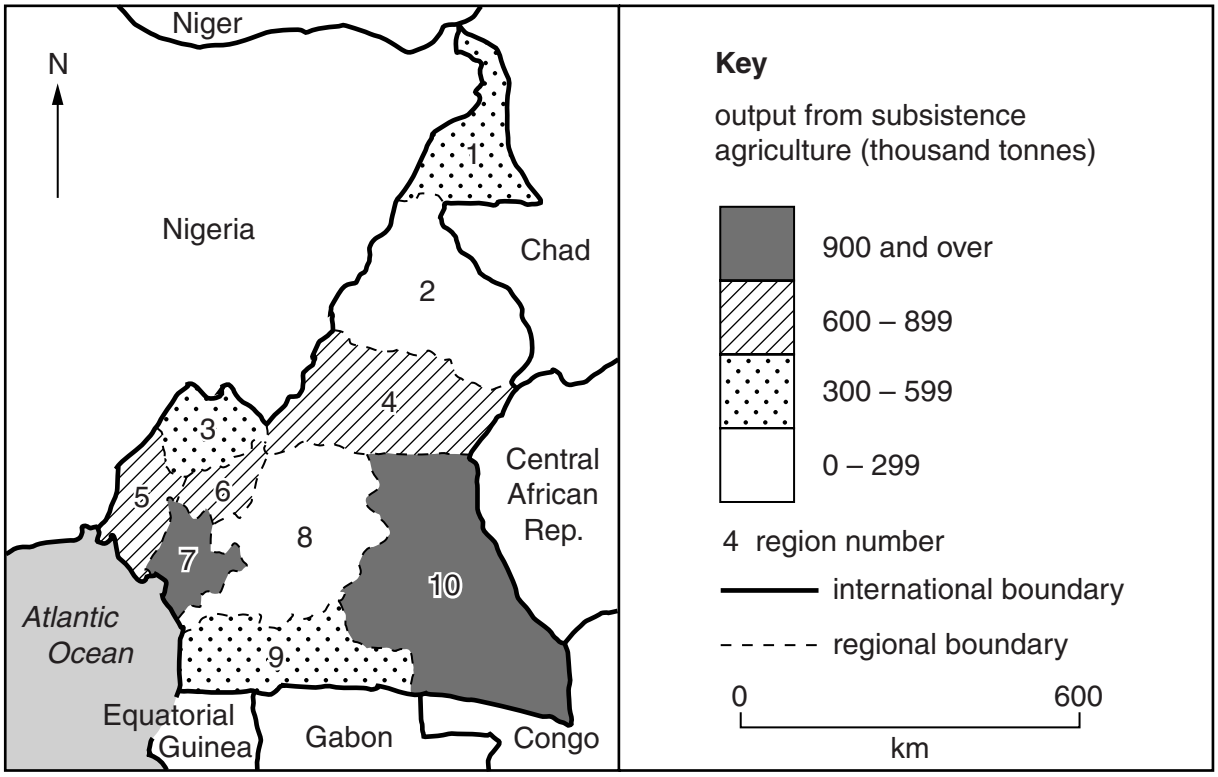

Fig. 6

(a) Describe the distribution of the regions with the highest output.

.....

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..... [2]

(b) **(i)** Region 1 has a subsistence agriculture area of 360 thousand hectares and an output of 400 thousand tonnes. Plot this information on Fig. 7. [1]

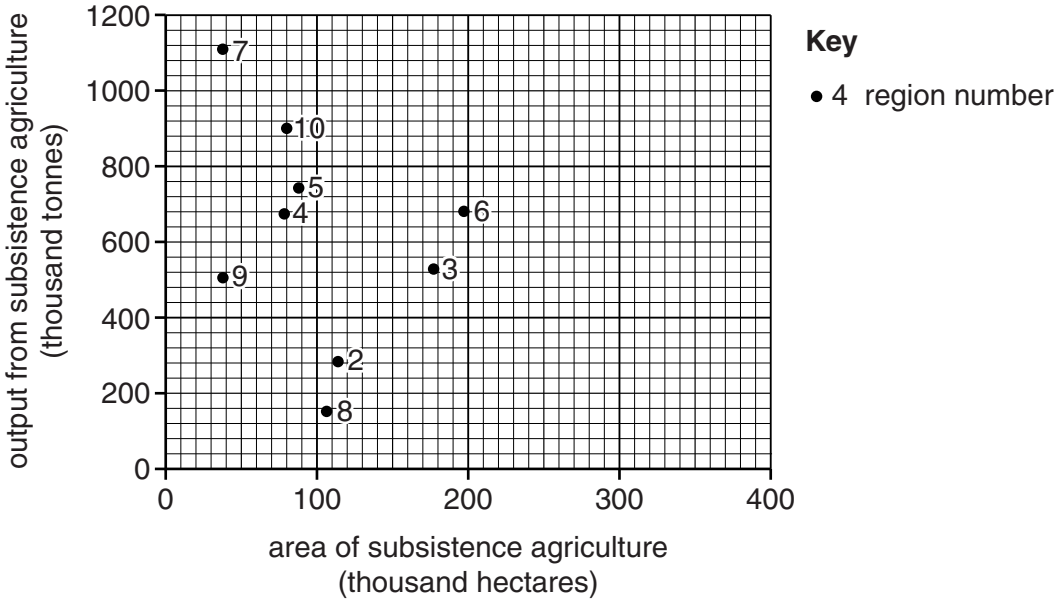

Fig. 7

(ii) Using Fig. 7 opposite, describe the relationship between the output from subsistence agriculture and the area of land that is used to produce it.

.....

..... [1]

(c) State **two** factors which affect output from subsistence agriculture.

1 ..... 2 ..... [2]

(d) It is not always easy to increase the output from subsistence agriculture. Fig. 8 shows one reason for this. Complete Fig. 8 by adding, in the correct spaces, the following labels:

decreasing soil fertility and yields *no fertiliser or improved seeds* *little surplus to sell*

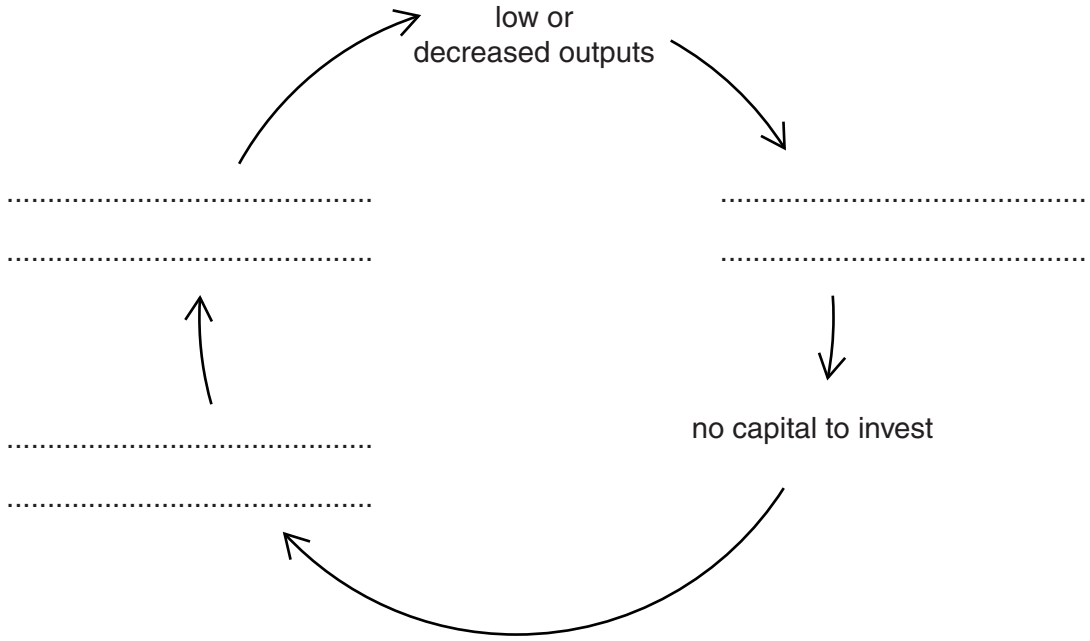

Fig. 8

[2]

[Total: 8 marks]

6 Fig. 9 shows the Mekong River in south east Asia. The Mekong is one of the largest rivers in the world and supplies water for a variety of purposes. Study Fig. 9 and answer the questions on the opposite page.

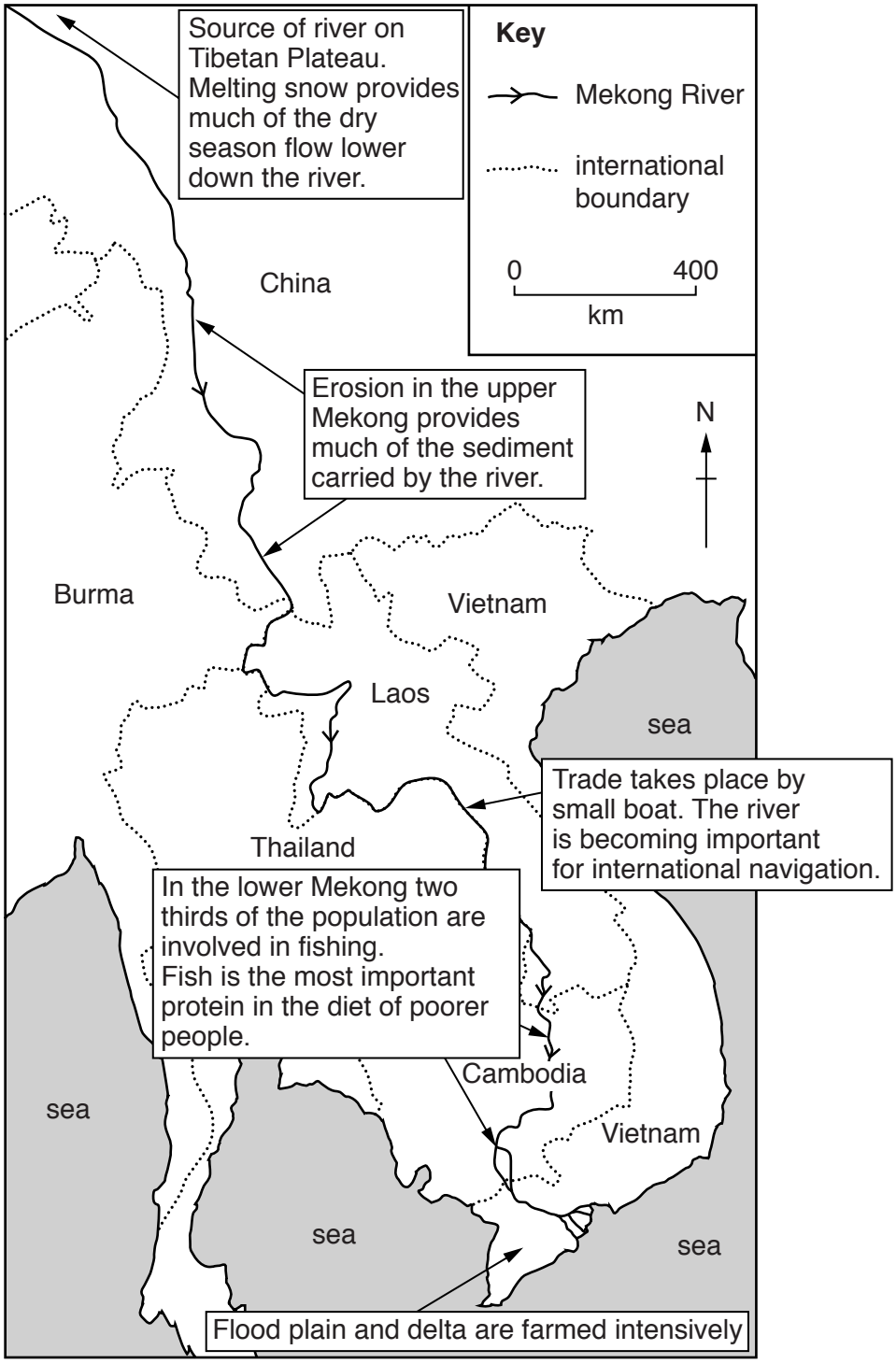

Fig. 9

(a) Name **two** countries that have part of their international boundary following the Mekong River.

1 ..... 2 ..... [1]

(b) Estimate the length of the Mekong River shown on Fig. 9. Circle **one** correct answer below.

3200 kms 3600 kms 4200 kms 4800 kms [1]

(c) Several countries along the Mekong River are building large dams for hydroelectricity and water supply. Using Fig. 9 **only**, suggest how dam construction might cause problems for people living close to the river.

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..... [4]

(d) Using Fig. 9, suggest why disagreements might occur over the use of the water of the Mekong River.

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..... [2]

[Total: 8 marks]

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