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0460/02

May/June 2007

1 hour 30 minutes

Additional Materials: Ruler

1:25 000 Survey Map Extract is enclosed with this question paper.

Write your Centre number, candidate number and name on all the work you hand in.
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.

The Survey Map Extract and the Insert are **not** required by the Examiner.

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	
1	
2	
3	
4	
5	
6	
Total	

This document consists of **14** printed pages, **2** blank pages and **1** Insert.

1 Study the map extract, which is for part of the island of Mauritius. The scale is 1:25 000.

(a) Fig. 1 shows the position of some features in the north-west of the map extract. Study the map extract and Fig. 1 and answer the questions on the opposite page.

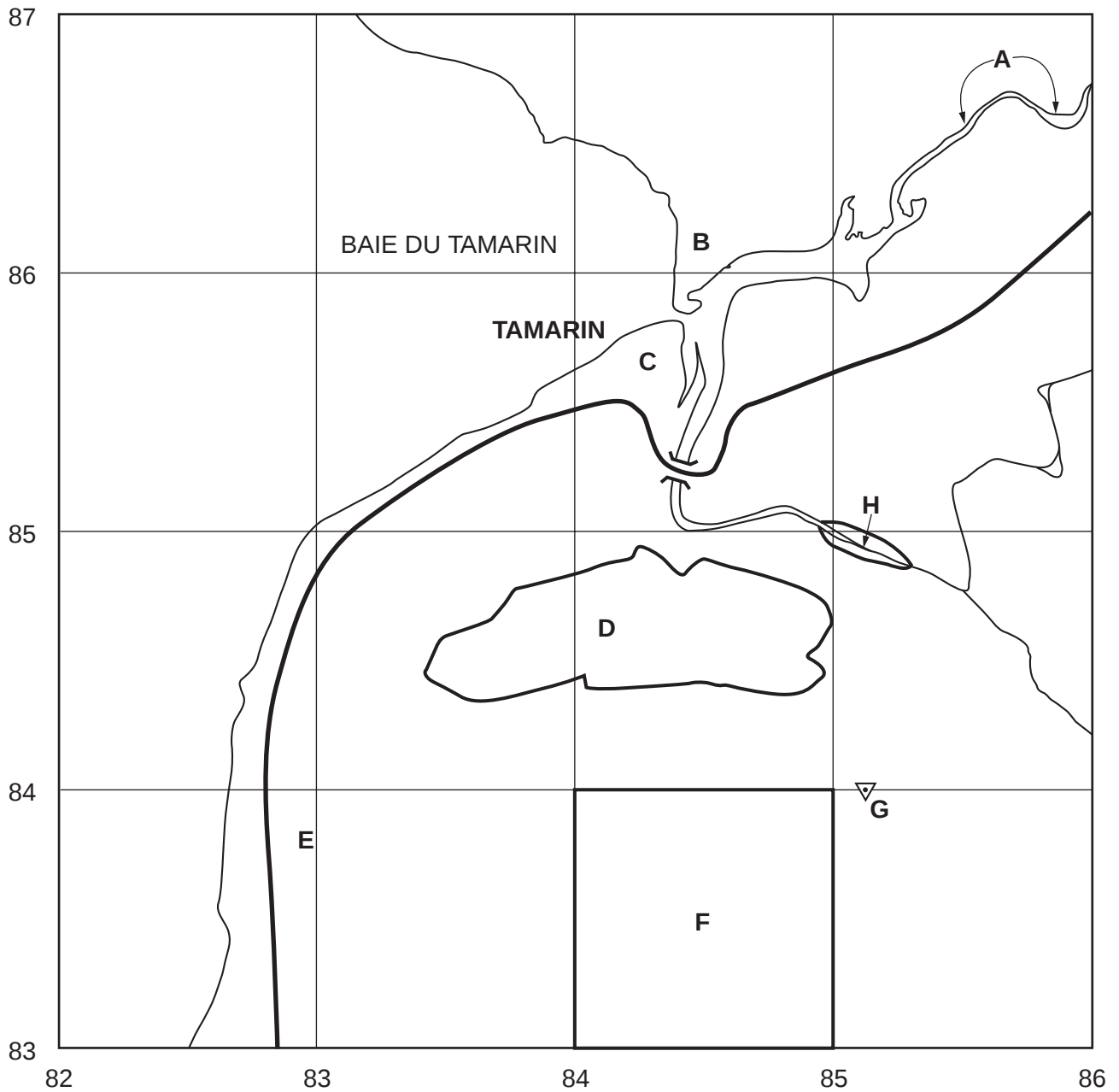


Fig. 1

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

(i) river A (8586),

.....[1]

(ii) settlement B (8486),

.....[1]

(iii) **two** services provided at Tamarin (C) (8385, 8485),

.....[1]

(iv) the crop in area D (8384, 8484),

.....[1]

(v) the type of road at E (8283),

.....[1]

(vi) the vegetation at F (8483),

.....[1]

(vii) feature G (851840),

.....[1]

(viii) the vegetation at H (8584).

.....[1]

(b) Using the map key, look at the area of coral along the coast.

(i) Name **one** area where coral is absent.

.....[1]

(ii) Suggest **one** reason for this.

.....

.....

.....[1]

(c) Fig. 2 shows the road between Yemen (8784) and its junction with the main coastal road at 844815. On Fig. 2, use the letter indicated to show the position of:

- (i) the highest point on the road (H),
- (ii) the road crossing a flood plain (F),
- (iii) the road passing cultivation and other plantation (C).

[3]

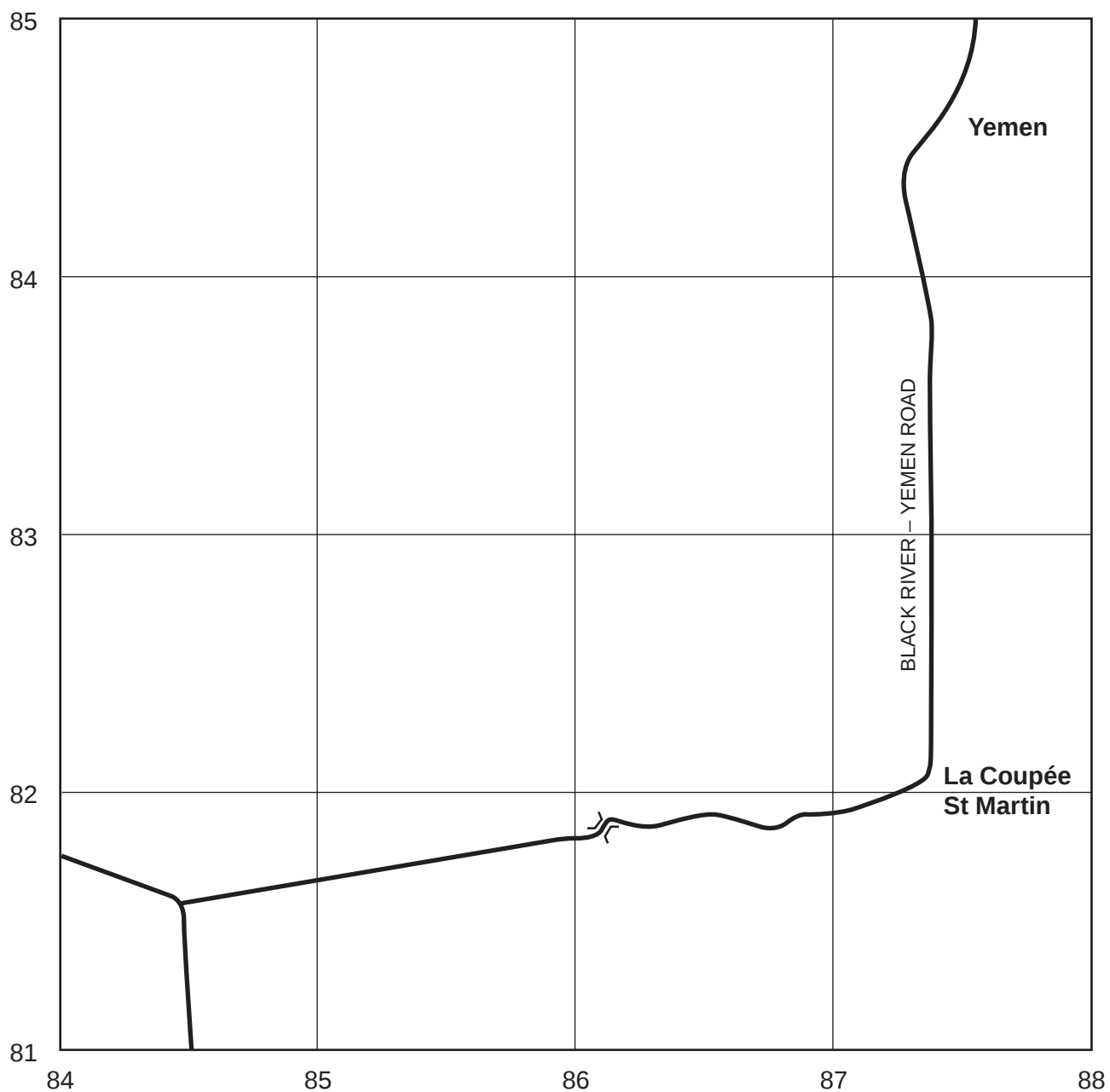


Fig. 2

- (d) There is a tourist industry along the coast of the area shown on the map extract. Suggest **two** advantages of the coastal area for tourism.

.....

.....

.....

.....[2]

- (e) A tourist stands at the Martello Tower (824827) and looks at the summit (highest point) of the Tourelle du Tamarin (840834).

- (i) In which compass direction is the tourist looking?

.....[1]

- (ii) State the height above sea level of the summit.

.....[1]

- (iii) Measure the distance in metres between the tower and the summit.

.....metres [1]

- (iv) Describe the changes in gradient of the land between the tower and the summit.

.....

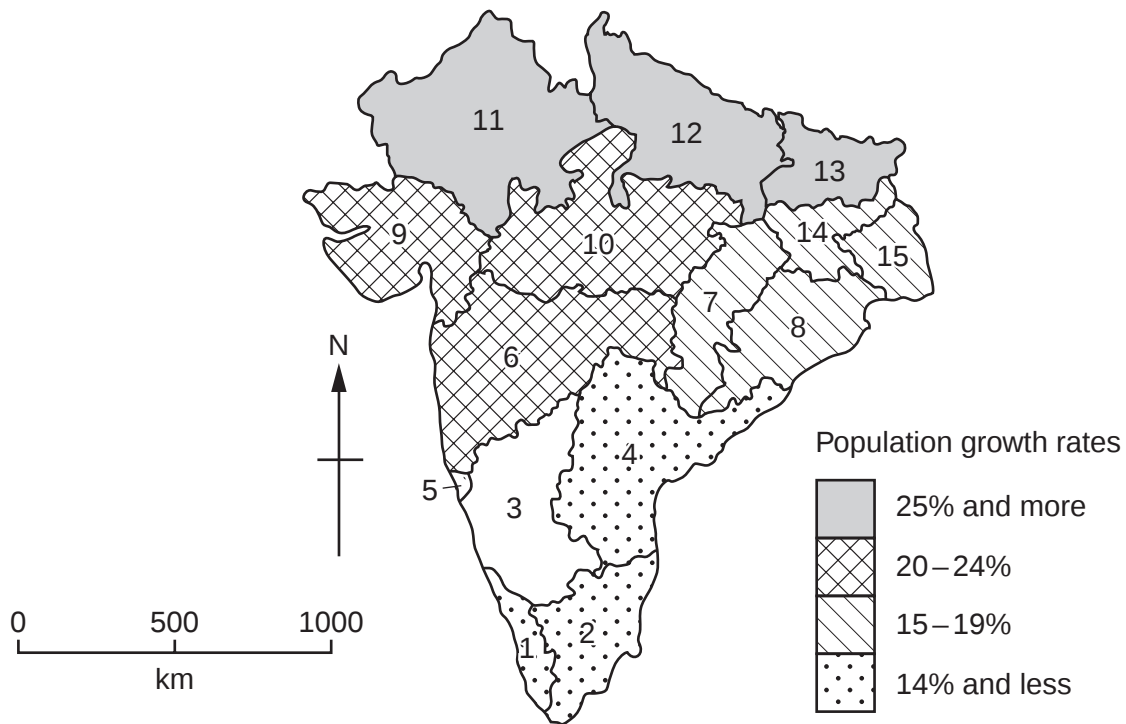
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.....

.....

.....[2]

- 2 Fig. 3 shows the population growth rates between 1991 and 2001 for fifteen states in India.



Key to states

1 Kerala	6 Maharashtra	11 Rajasthan
2 Tamil Nadu	7 Chhattisgarh	12 Uttar Pradesh
3 Karnataka	8 Orissa	13 Bihar
4 Andhra Pradesh	9 Gujarat	14 Jharkhand
5 Goa	10 Madhya Pradesh	15 West Bengal

Fig. 3

- (a) (i) Name **one** of the states with the greatest population growth rate.

.....[1]

- (ii) The state of Karnataka has a population growth rate of 17%. Using the key provided, add this information to Fig. 3. [1]

- (iii) Describe the general distribution of population growth rates shown on Fig. 3.

.....

.....

.....[2]

- (b) Fig. 4 shows the population growth rate between 1991 and 2001 and the population density for the same fifteen states.

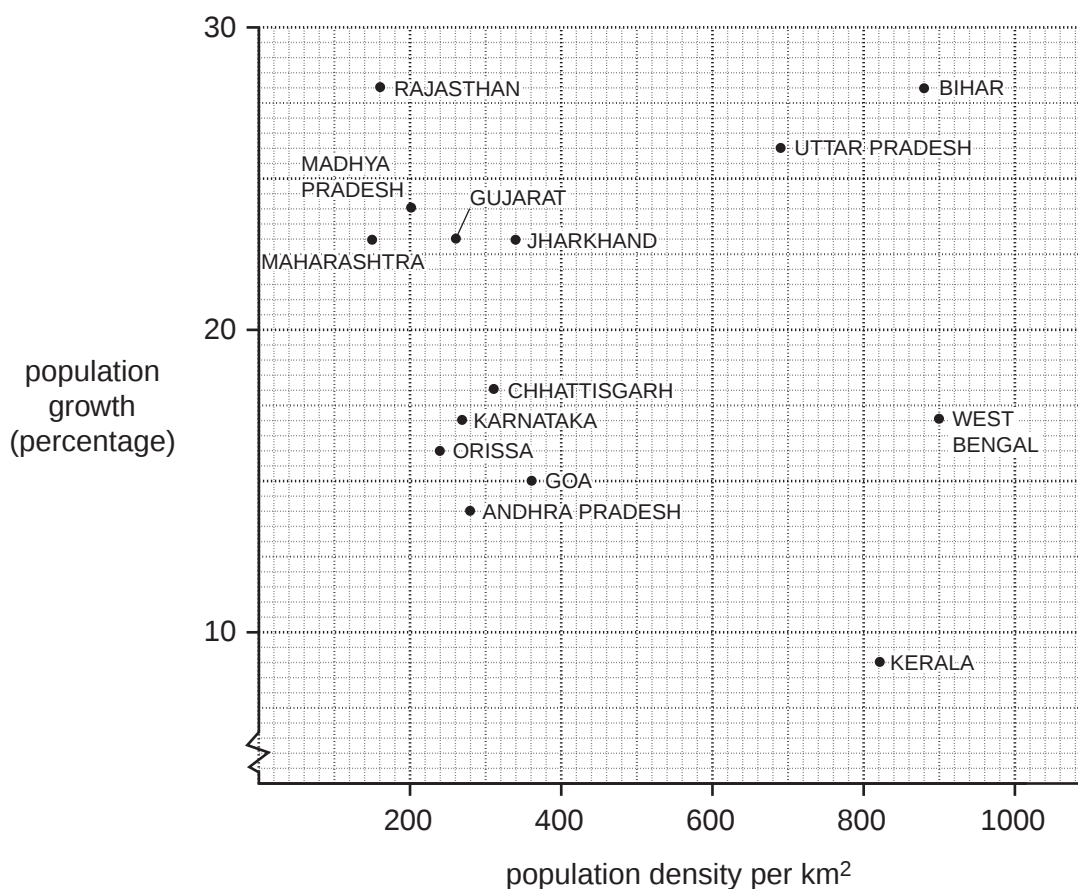


Fig. 4

- (i) Tamil Nadu has a population density of 480 people per square kilometre and a population growth rate of 11%. Plot this information on Fig. 4. [1]
- (ii) Which **one** of the following statements is correct? Tick the correct statement.

Statement	Tick
There is a negative (inverse) relationship between population density and population growth rate.	
There is a positive relationship between population density and population growth rate.	
There is no clear relationship between population density and population growth rate.	

[1]

- (c) Use the information on Figs 3 and 4 to complete the following paragraph.

“Of the fifteen states, the smallest in area is The population density of the state which is furthest east is per square kilometre.” [2]

(a) Describe the advantages of the site of the factory in Photograph A.

[3]

Site

Buildings[5]

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- 4 In September 2004, the island of Grenada was affected by Tropical Storm Ivan. Fig. 5 shows features of the island and some of the effects of the storm.

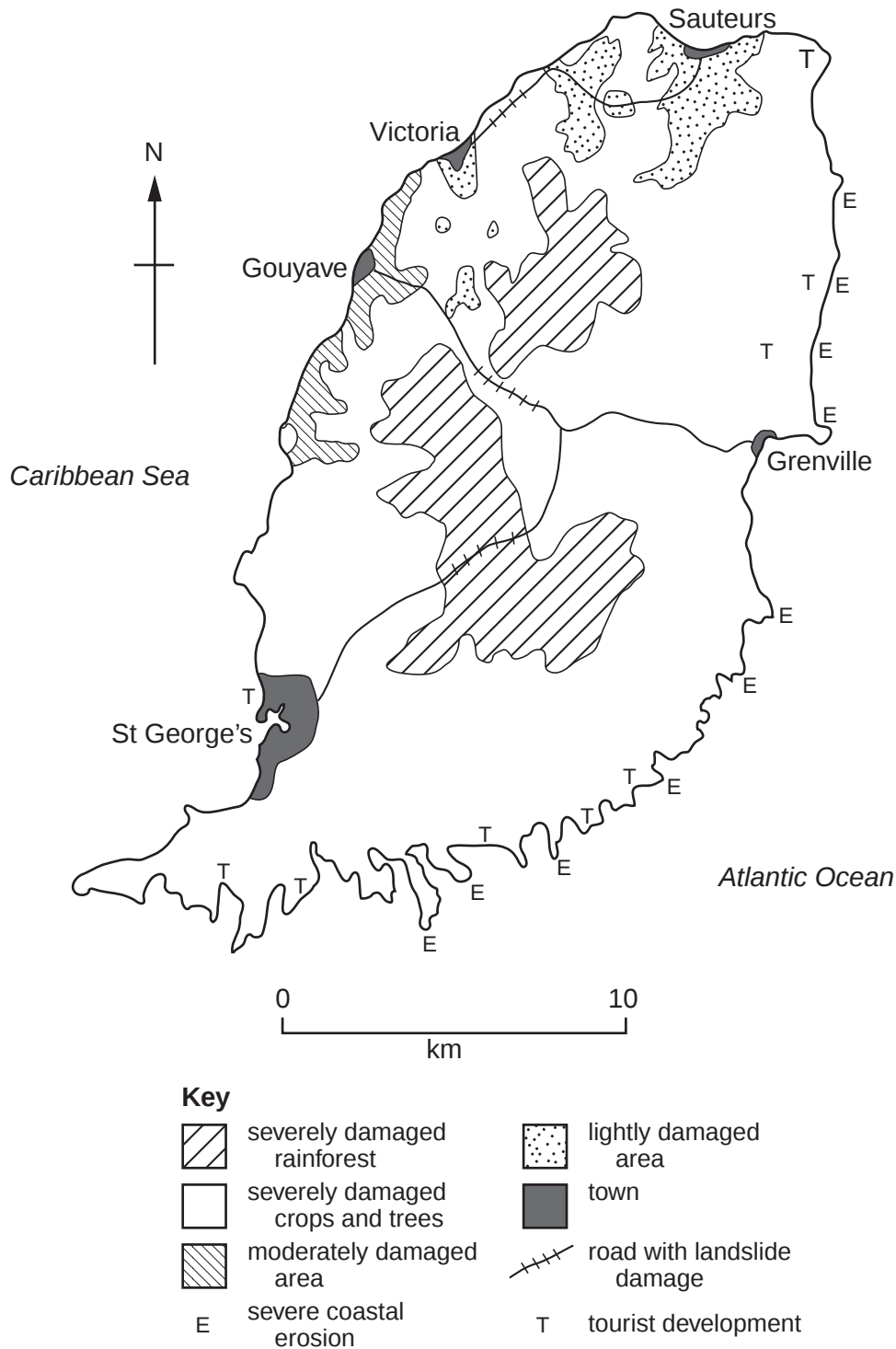


Fig. 5

- (a) (i) Describe the distribution of the severely damaged rainforest.

.....
[1]

- (ii) Describe the distribution of the lightly damaged areas.

.....
[1]

- (iii) Which town is in the moderately damaged area?

.....[1]

- (b) The storm had a serious effect on the human activities of the island. What evidence is shown for this on Fig. 5?

.....

[3]

- (c) Using evidence from Fig. 5, suggest the main wind direction during the storm.
 Give **one** reason for your answer.

Wind direction

Reason

.....
[2]

- 5 Fig. 6 provides information about the three regions of mainland Ecuador, South America: La Costa (the coast), La Sierra (the mountains) and El Oriente (the east).

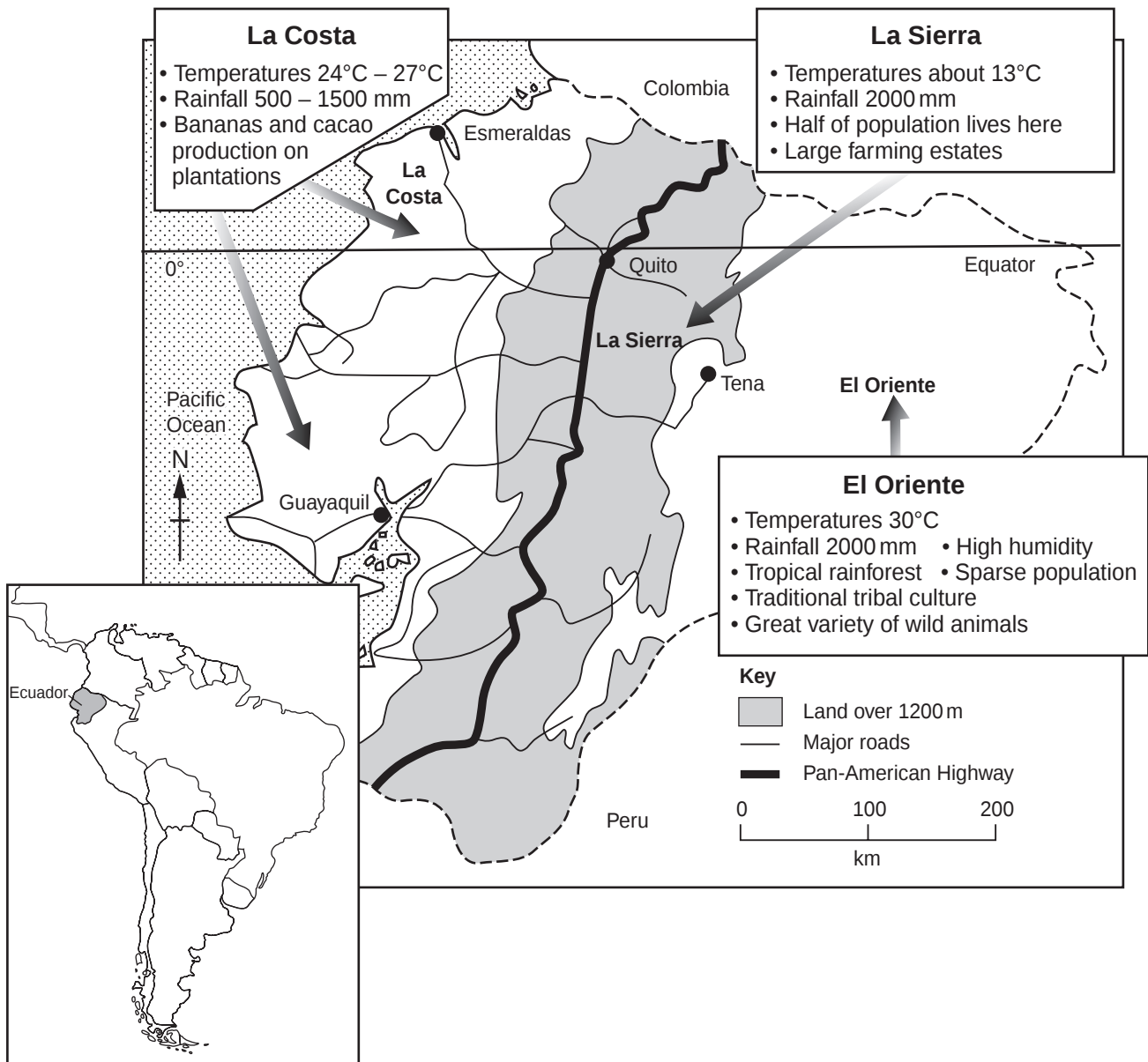


Fig. 6

- (a) (i) Describe the differences in temperature between the three regions shown on Fig. 6.

.....
 [1]

- (ii) Give **one** reason for these differences.

.....
 [1]

(b) Describe the road transport network of La Costa and La Sierra regions.

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.....[2]

(c) In 1967 oil was discovered in El Oriente.

(i) Using evidence from Fig. 6 only, explain the difficulties in exploiting oil in El Oriente.

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.....[3]

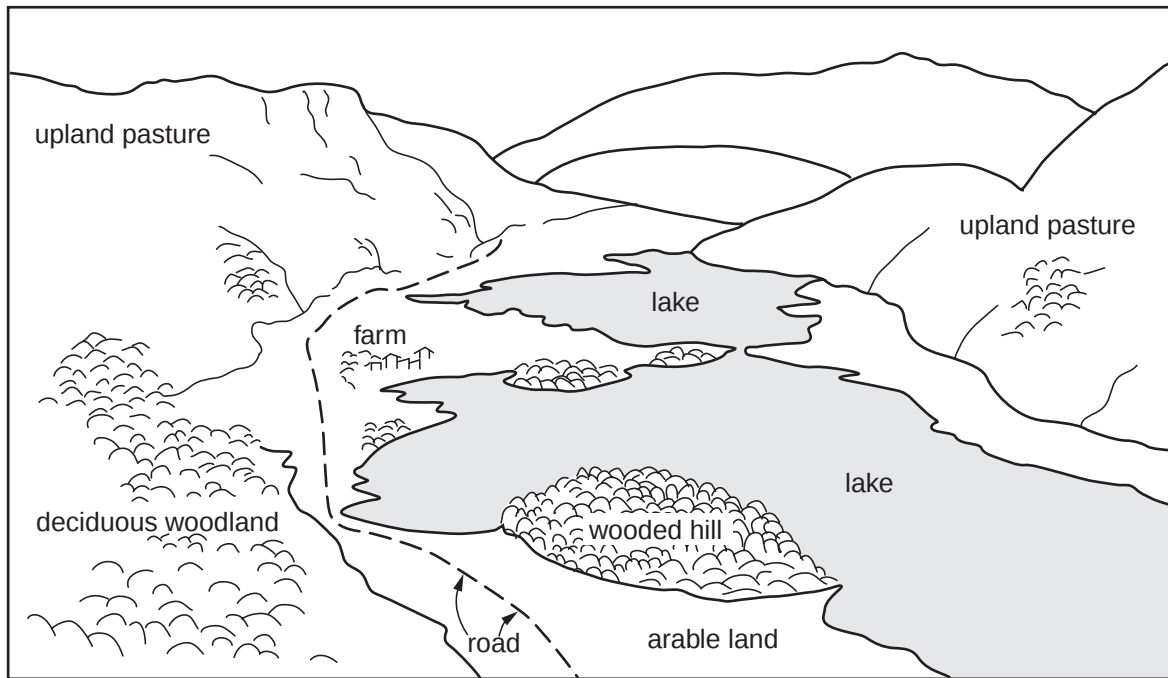
(ii) Using evidence from Fig. 6 only, suggest **one** problem which could be created by economic development of El Oriente.

.....

.....

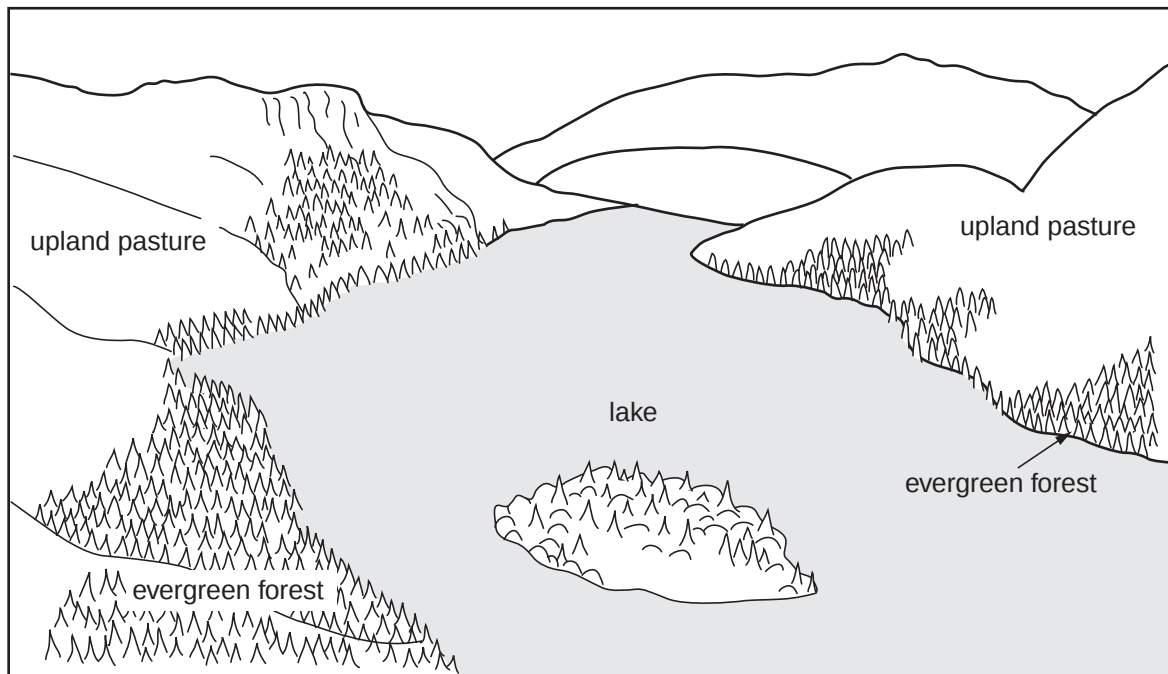
.....[1]

- 6 Figs 7 and 8 are field sketches of a lake used to supply water to a European city. A dam was built to enlarge the original lake. Fig. 7 shows the original lake and Fig. 8 shows the new lake.



The original lake

Fig. 7



The new lake

Fig. 8

- (a) Look at the wooded hill shown on Fig. 7. What happened to the hill when the lake was enlarged?

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

- (b) Describe the advantages of the area shown in Figs 7 and 8 for water supply.

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

- (c) Using evidence from Figs 7 and 8 only, suggest the likely effects of changes in the area on local farmers and tourists.

Local farmers

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Tourists

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.....[5]

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