



Cambridge International Examinations
Cambridge Ordinary Level

GEOGRAPHY

2230/01

Paper 1 Themes

May/June 2018

(FOR CENTRES IN BRUNEI)

1 hour 45 minutes

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

An answer booklet is provided inside this question paper. You should follow the instructions on the front cover of the answer booklet. If you need additional answer paper ask the invigilator for a continuation booklet.

Answer **three** questions, each from a different theme.

The Insert contains Fig. 1.1 for Question 1, Fig. 3.2 for Question 3, Fig. 5.2 for Question 5 and Fig. 6.1 for Question 6.

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

This document consists of **10** printed pages, **2** blank pages and **2** Inserts.

Theme A: The natural world

Answer **one** question from this theme, **either** Question 1 **or** Question 2.

- 1 (a) Name and describe **two** processes of river transport. [4]
- (b) Study Fig. 1.1 (Insert), a photograph which shows part of a river valley.
- (i) Name the stage of the river valley shown in Fig. 1.1. [1]
- (ii) Describe the valley and the river channel shown in Fig. 1.1. [5]
- (c) Parts of some river channels contain potholes. Describe potholes and explain how they may be formed. [3]
- (d) Explain how a river channel widens the valley floor to develop a flood plain. [5]
- (e) Explain the physical and human causes of river flooding. Give examples to support your answer. [7]

[Total: 25]

- 2 (a) Study Fig. 2.1, which shows a climate graph for Bandar Seri Begawan.

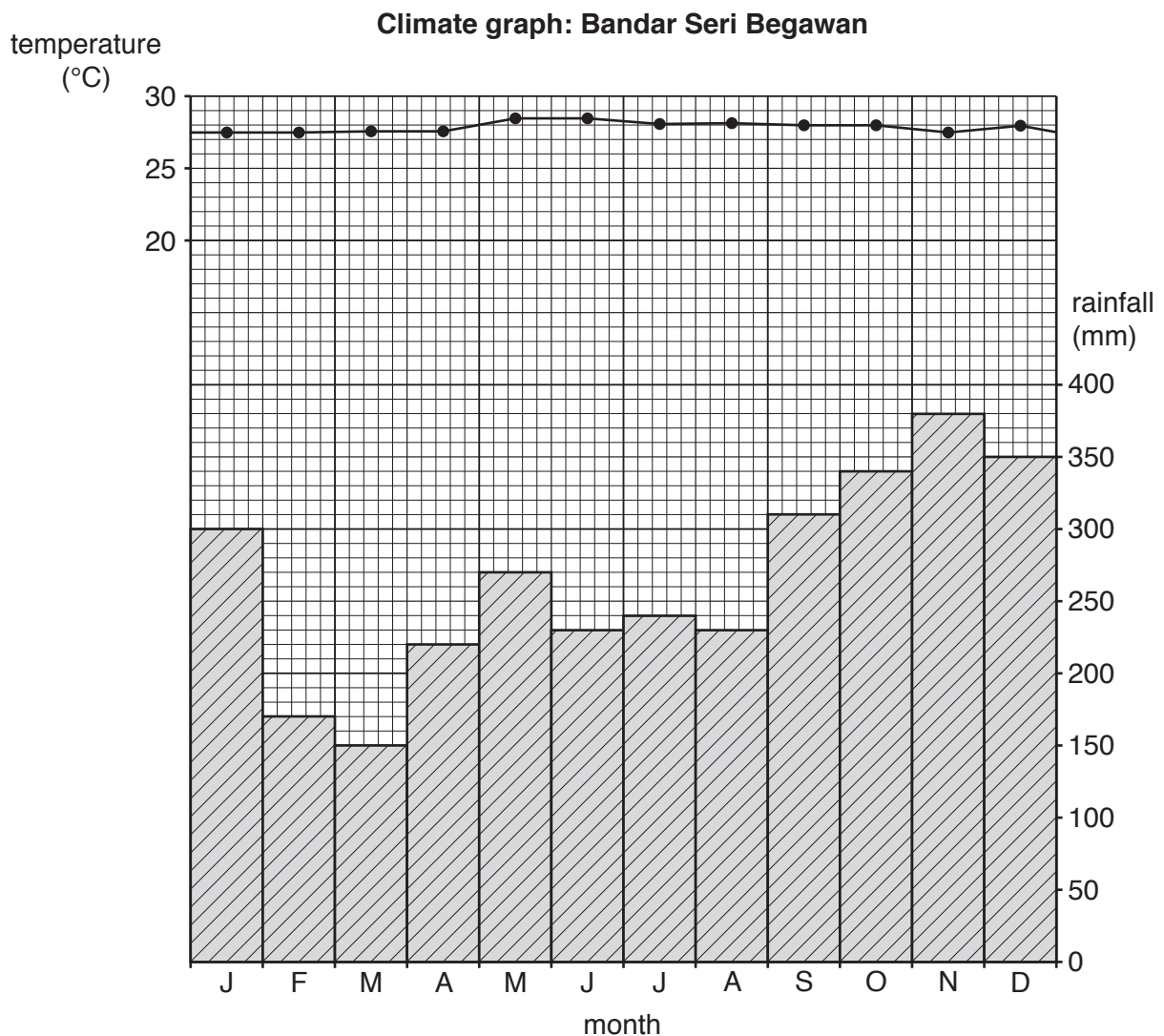


Fig. 2.1

- (i) Name the wettest and the driest months. [1]
- (ii) Give the difference in millimetres (mm) between the wettest and driest months. [1]
- (iii) Describe the temperature characteristics of Bandar Seri Begawan as shown in Fig. 2.1. [2]
- (iv) Explain the temperature characteristics described in your answer to (a)(iii). [3]
- (b) Explain how mean monthly rainfall totals are calculated. [3]
- (c) Study Fig. 2.2, which shows one of the ways rainfall develops over Brunei.

One of the ways rainfall develops over Brunei

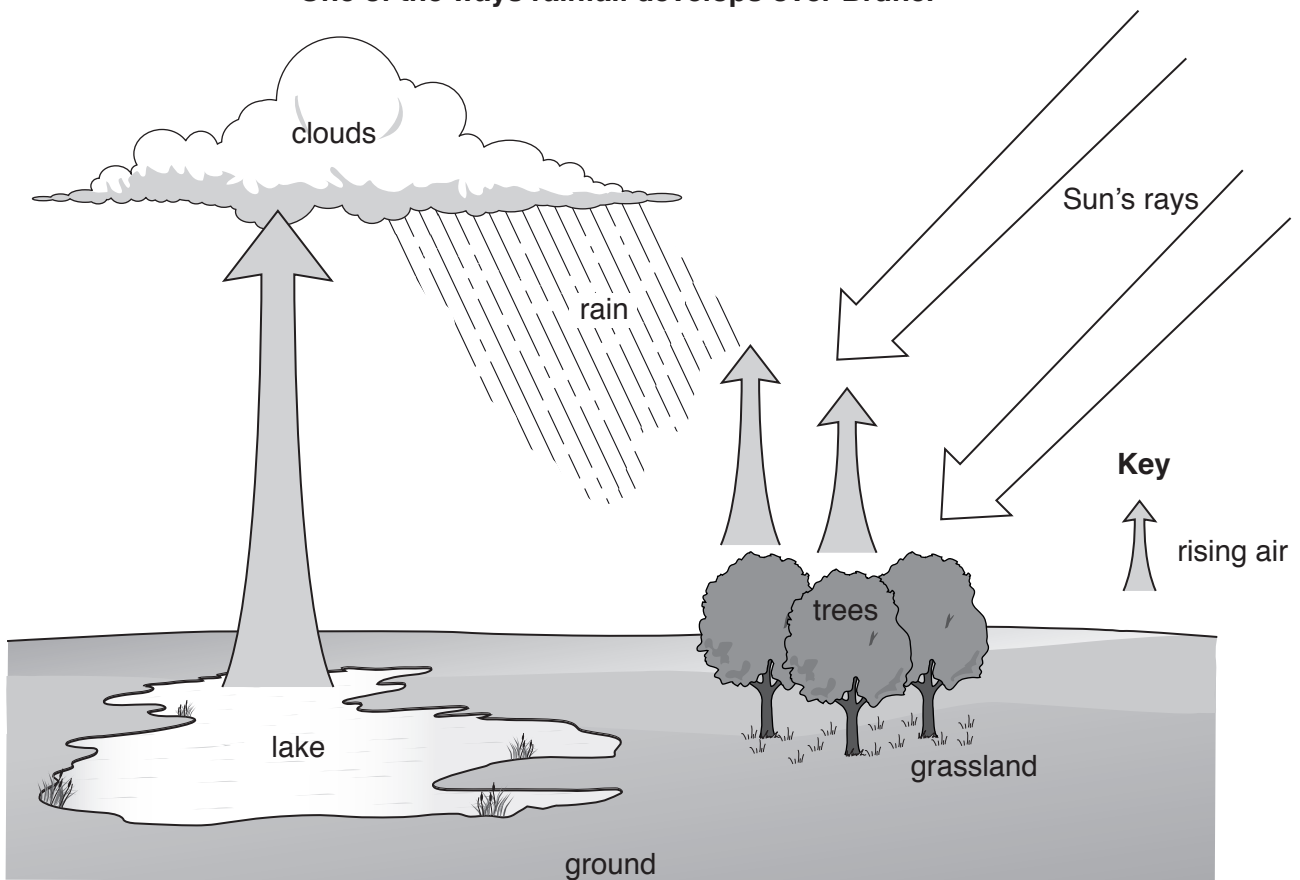


Fig. 2.2

- Name the type of rainfall shown in Fig. 2.2 and explain how it forms. [5]
- (d) (i) Suggest **three** reasons for deforestation of the tropical rainforest. [3]
- (ii) Explain the problems resulting from the deforestation of the tropical rainforest. Give examples to support your answer. [7]

[Total: 25]

Theme B: People, food and settlement

Answer **one** question from this theme, **either** Question 3 **or** Question 4.

3 (a) Define *commercial farming*. [1]

(b) Study Fig. 3.1, which shows rubber production for Malaysia and Thailand, 1975–2013.

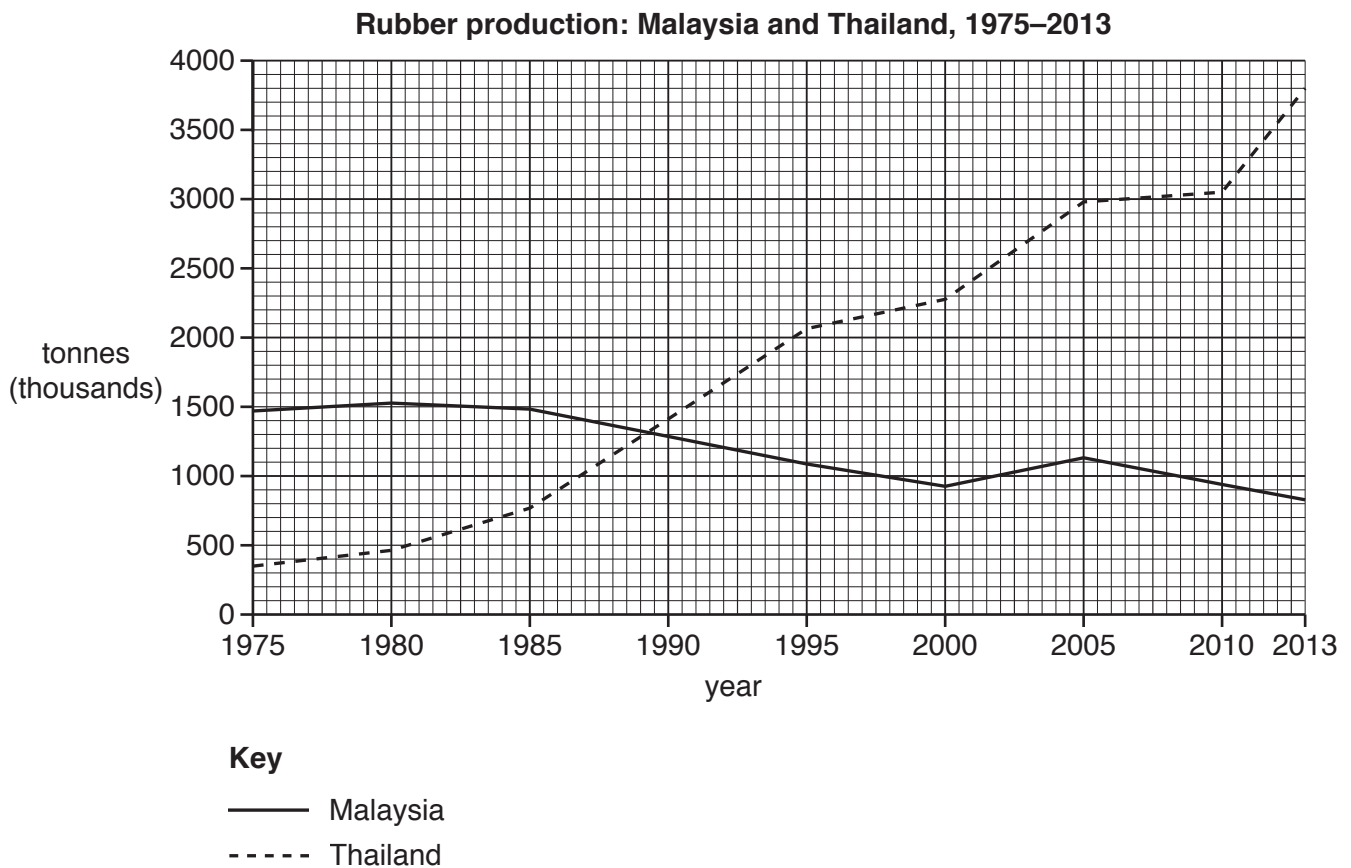


Fig. 3.1

- (i) Compare the production of rubber for Malaysia and Thailand between 1975 and 2013 as shown in Fig. 3.1. [4]
- (ii) Explain how and why some countries have increased their rubber production. [5]
- (c) Study Fig. 3.2 (Insert), a photograph which shows part of a rubber plantation.
- (i) Describe the features of the rubber plantation as shown in Fig. 3.2. [4]
- (ii) Explain the problems plantations may cause to the environment. [4]
- (d) 'Brunei's equatorial climate is its main obstacle to increasing agricultural production.' How far do you agree with this statement? Explain your answer. [7]

[Total: 25]

TURN OVER FOR QUESTION 4

- 4 (a) Study Fig. 4.1, which shows the population increase for five very large cities, 1975–2015.

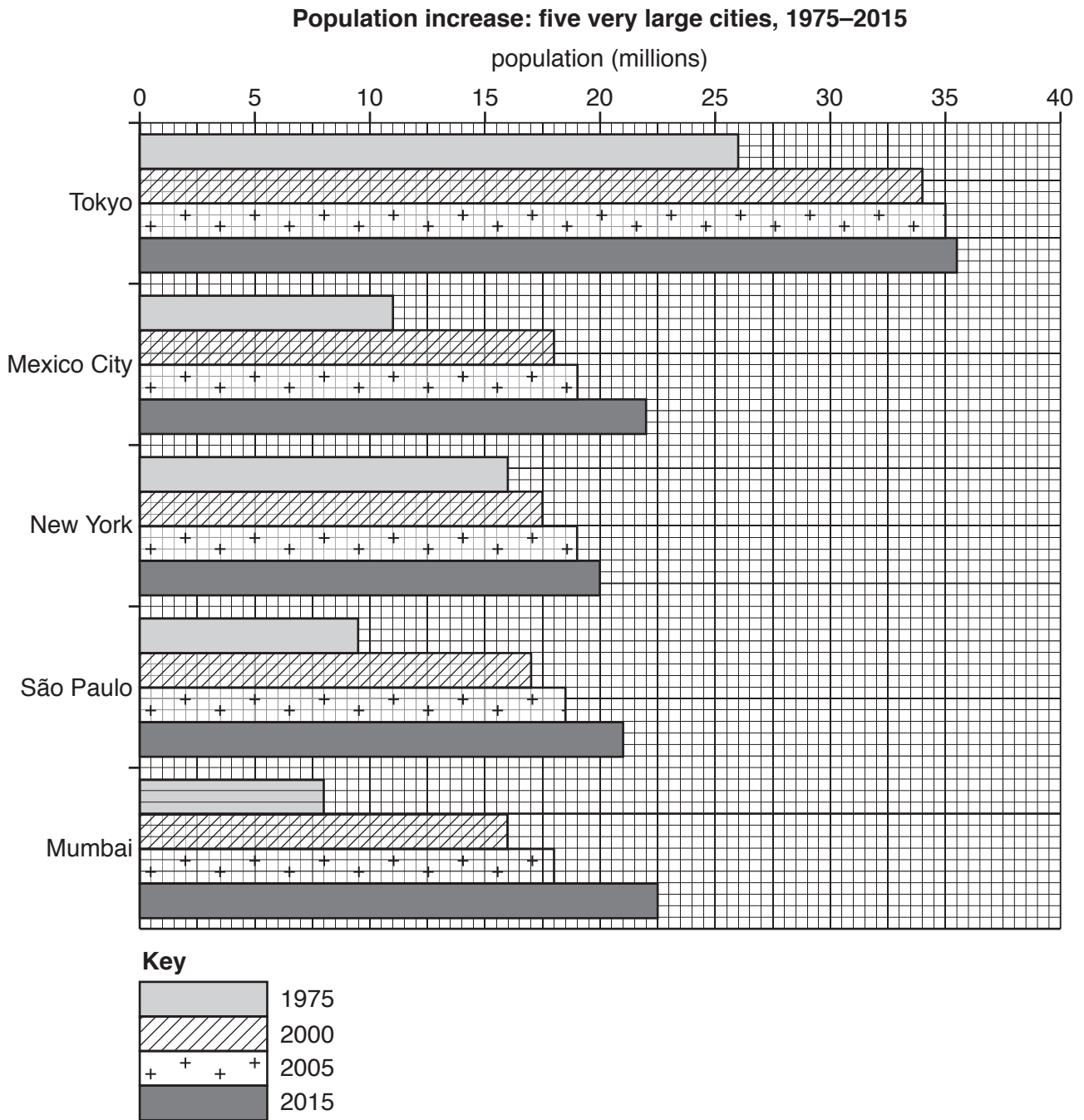


Fig. 4.1

- (i) Name the city which had:
- A** the greatest increase from 2005 to 2015; [1]
- B** the smallest increase from 2000 to 2015. [1]
- (ii) State the population increase for São Paulo from 1975 to 2000. [1]
- (iii) Compare the increase in population for Tokyo with that of Mexico City from 1975 to 2015. [4]

(b) Study Fig. 4.2, which shows a reason for city growth.

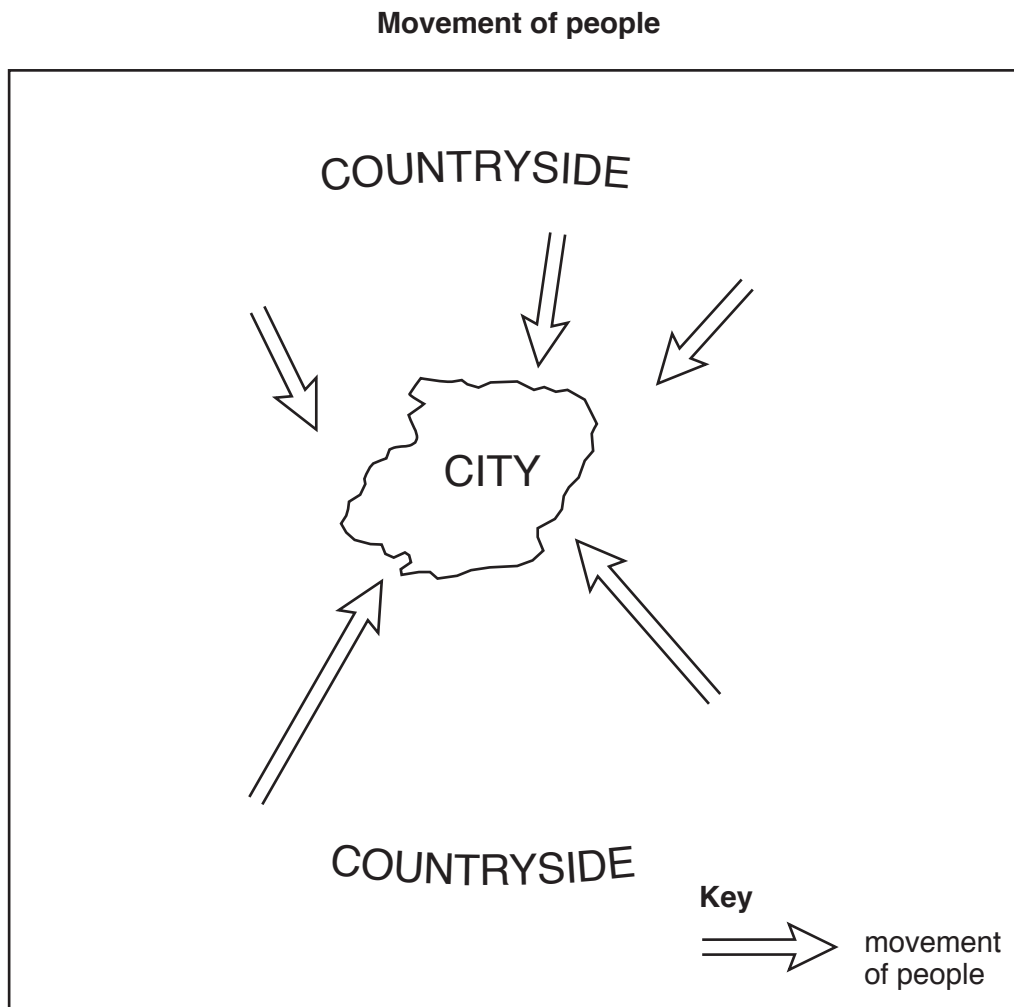


Fig. 4.2

- (i) Name the process shown in Fig. 4.2 which will result in city growth. [1]
- (ii) Give reasons to explain why the process identified in (b)(i) occurs. [6]
- (c) (i) State the problems associated with using cars for transport in very large cities. [4]
- (ii) Describe and explain the strategies used to overcome the problems caused by using cars for transport in very large cities. Give examples to support your answer. [7]

[Total: 25]

Theme C: Industry, energy and tourism

Answer **one** question from this theme, **either** Question 5 **or** Question 6.

- 5 (a) Define *primary industry* and *tertiary industry*. [2]
- (b) Study Fig. 5.1, which shows the employment sectors for Guatemala and Brazil.

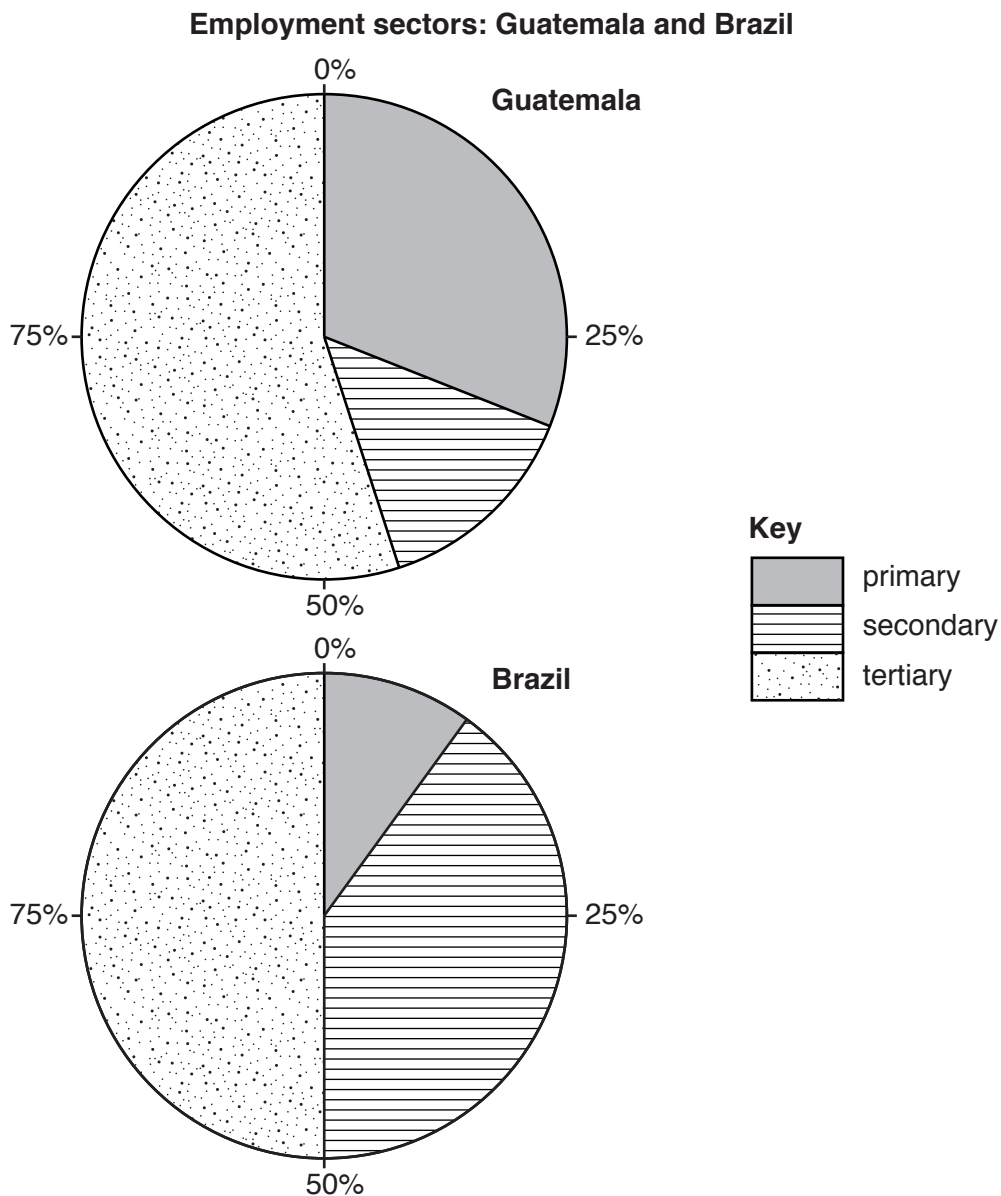


Fig. 5.1

- (i) Compare the employment sectors of Guatemala and Brazil. [3]
- (ii) Give reasons for the size of the primary industry in countries like Guatemala and the tertiary industry in countries like Brazil. [6]

- (c) Study Fig. 5.2 (Insert), a photograph which shows a steelworks (with information), and Fig. 5.3, a sketch map of its location.

Sketch map: location of the steelworks

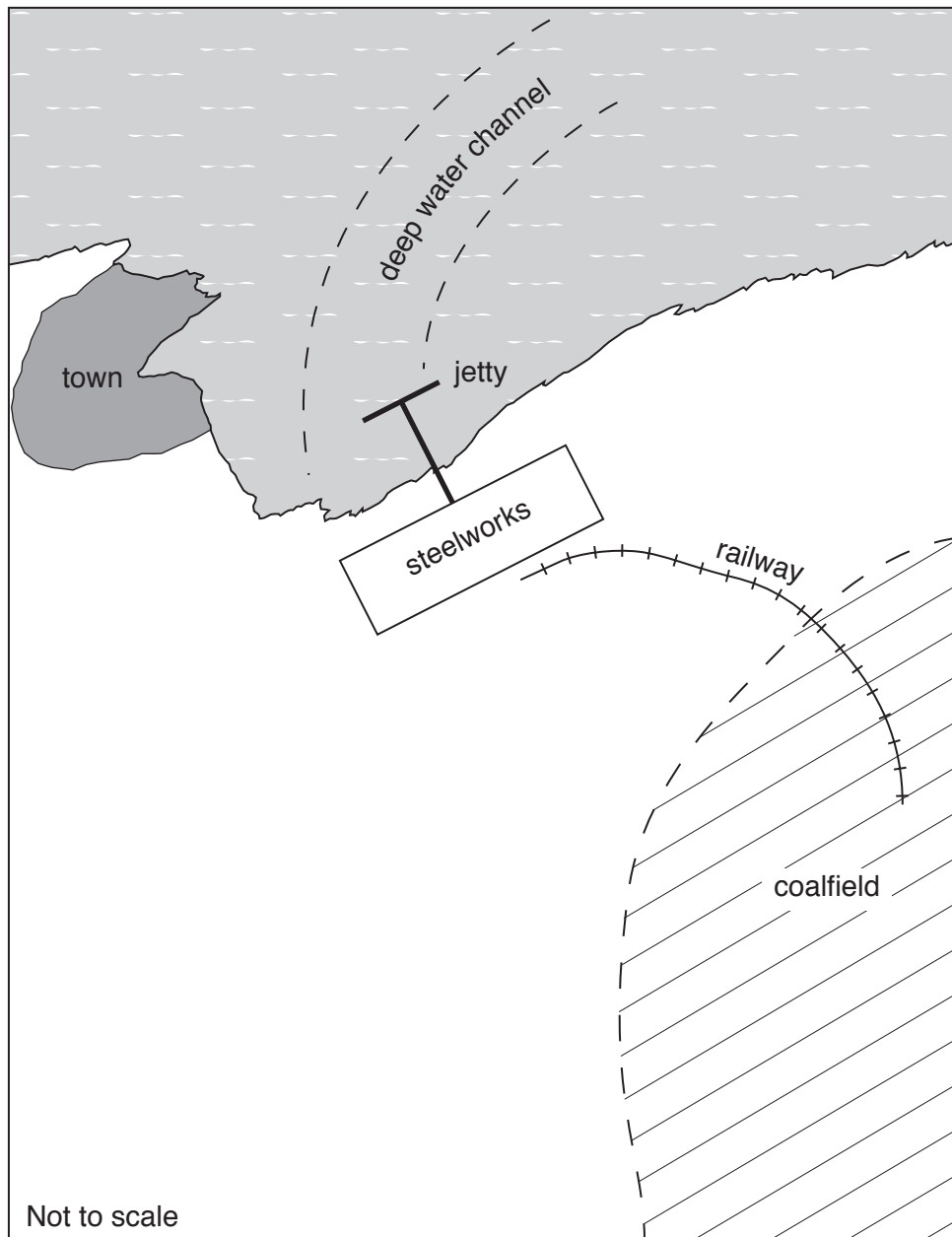


Fig. 5.3

- (i) Describe the steelworks shown in the photograph in Fig. 5.2. [3]
- (ii) Using Fig. 5.3 and Fig. 5.2, explain the location of the steelworks. [4]
- (d) Describe the impacts of industry on the environment. Assess the effectiveness of strategies used to overcome these impacts. Give examples to support your answer. [7]

[Total: 25]

6 (a) Study Fig. 6.1 (Insert), a photograph which shows an onshore wind farm.

- (i) Describe the wind farm and its site. [3]
- (ii) Explain the benefits of this location for a wind farm. [2]
- (iii) Some people were unhappy with the building of this wind farm. Explain their concerns. [3]

(b) Study Table 6.1, which shows alternative energy by source for five countries.

Table 6.1

Alternative energy by source: five countries, 2014

country	HEP	wind	biofuels	solar	geothermal	total
China	1070	160	42	28	0	1300
USA	260	181	64	18	17	540
Brazil	410	5	36	0	0	451
Canada	376	11	9	1	0	397
Germany	25	57	49	36	0	167

All figures are given in terawatt-hours per year.

- (i) Name the energy source which generates the least power. [1]
 - (ii) Compare the amount of energy from HEP with other alternative energy sources in the countries shown. [3]
 - (iii) Describe the advantages of using these alternative methods of energy production. [6]
- (c) 'The lack of technology is the main reason LEDCs are slow to develop alternative energy.' How far do you agree with this statement? Give examples to support your answer. [7]

[Total: 25]

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