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GEOGRAPHY **0460/12**

Paper 1 Geographical Themes **February/March 2023**

1 hour 45 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
Calculator
Ruler

INSTRUCTIONS

- Answer **three** questions in total, **one** from each section.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- If additional space is needed, you should use the lined pages at the end of this booklet; the question number or numbers must be clearly shown.

INFORMATION

- The total mark for this paper is 75.
- The number of marks for each question or part question is shown in brackets [ ].
- The insert contains additional resources referred to in the questions.

Definitions
MEDCs – More Economically Developed Countries
LEDCs – Less Economically Developed Countries

This document has **32** pages. Any blank pages are indicated.

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Section A

Answer **one** question from this section.

1 **(a)** Study Fig. 1.1, which shows information about birth rates and death rates in Japan (an MEDC) between 1970 and 2020.

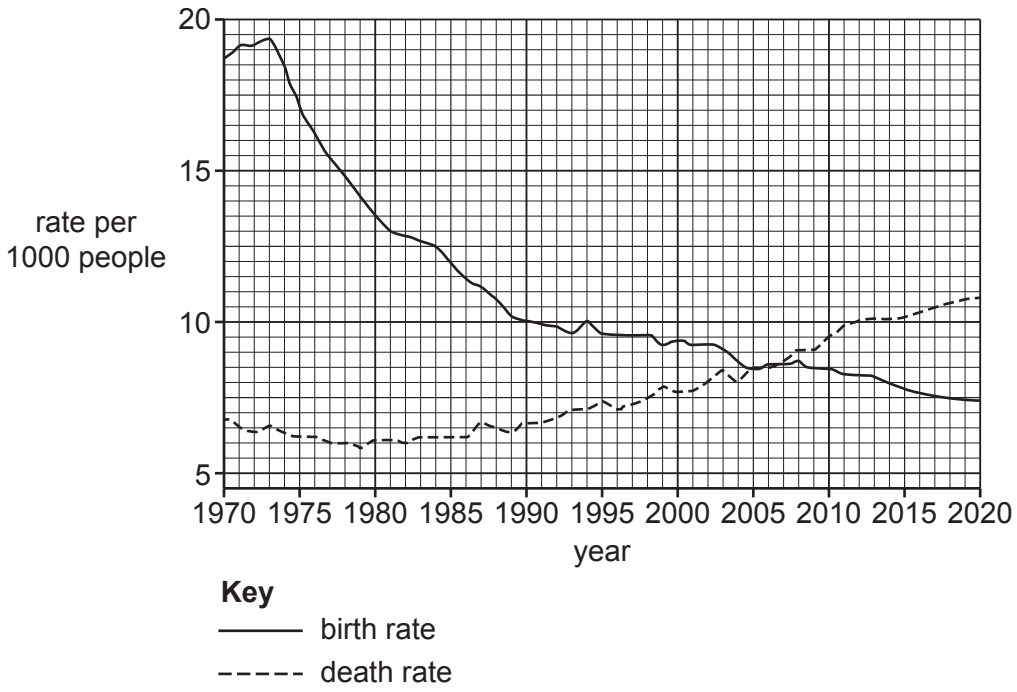


Fig. 1.1

(i) What was the birth rate in Japan in 1970?

..... per 1000 [1]

(ii) Which of the following statements are true about birth and death rates in Japan between 1970 and 2020?
Tick **two** answers in the table below:

	tick (✓)
The birth rate and the death rate remained constant.	
The birth rate decreased overall.	
The birth rate was always higher than the death rate.	
The death rate fluctuated more than birth rate.	
The death rate increased overall.	

[2]

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(iii) Calculate the rate of natural population decrease in Japan in 2020.
You should show your calculations.

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[3]

(iv) Suggest reasons to explain why natural population decrease is occurring in some **MEDCs**, such as Japan.

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(b) Study Fig. 1.2, which shows the population changes expected in each continent between 2020 and 2100.

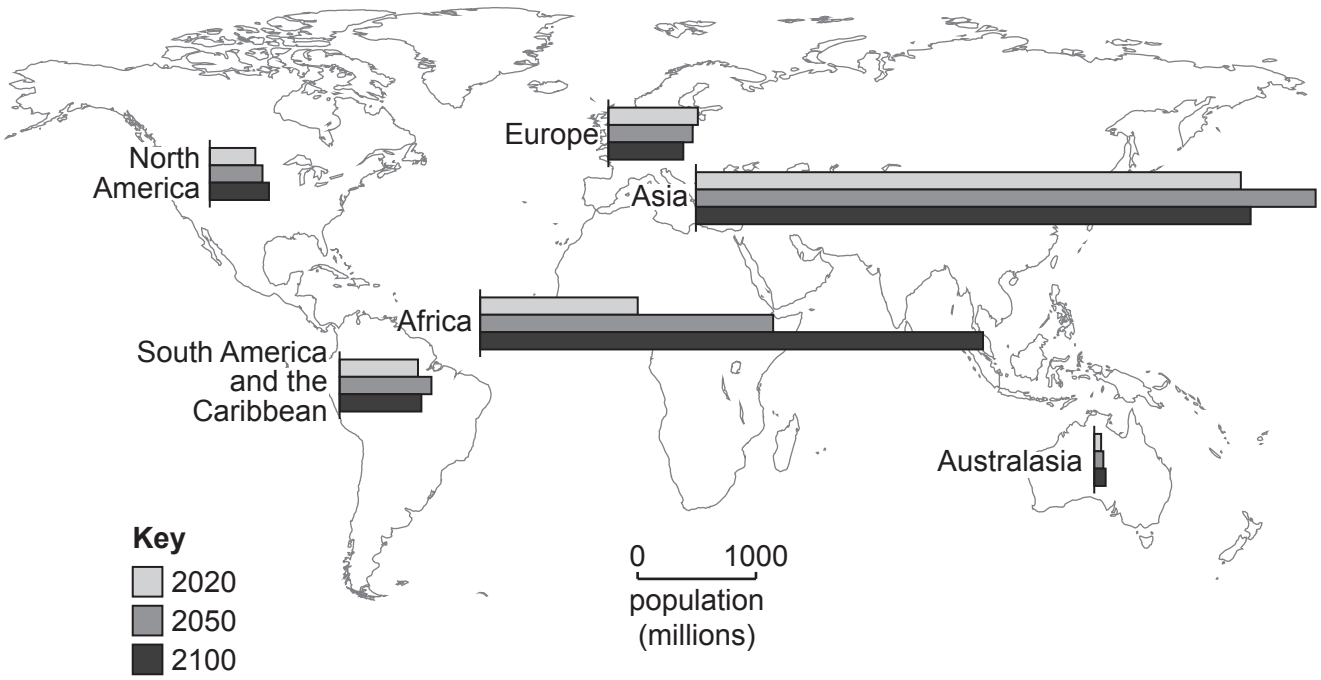


Fig. 1.2

(i) State the expected population changes of Africa, Asia and Europe between 2020 and 2100.
Do **not** use statistics in your answer.

Africa .....

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Asia .....

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Europe .....

..... [3]

(ii) Suggest the problems likely to be faced by the economies of **LEDCs** where rapid population growth occurs.

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(c) For a named country you have studied, describe the positive and negative impacts of a policy used to influence population growth.

Name of country ....

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[Total: 25]

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2 **(a)** Study Figs. 2.1, 2.2, 2.3 and 2.4 (Insert), which are photographs taken of different urban land uses in Warsaw, Poland (an MEDC in Eastern Europe).

(i) Which photograph shows an area where redevelopment is taking place?
Circle **one** answer from the list below.

Fig. 2.1 Fig. 2.2 Fig. 2.3 Fig. 2.4 [1]

(ii) Suggest **two** reasons why traffic congestion may be a problem in the areas shown in Figs. 2.1, 2.2, 2.3 and 2.4.

1 .....

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2 .....

..... [2]

(iii) Explain how public transport, such as the trams shown in Fig. 2.2, reduces traffic congestion.

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..... [3]

(iv) State **two** other methods that can be used to reduce traffic congestion in urban areas. For each method explain how it reduces traffic congestion.

Method 1 .....

Explanation .....

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Method 2 .....

Explanation .....

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..... [4]

(b) Study Fig. 2.5, which shows levels of air pollution in selected urban areas in India.

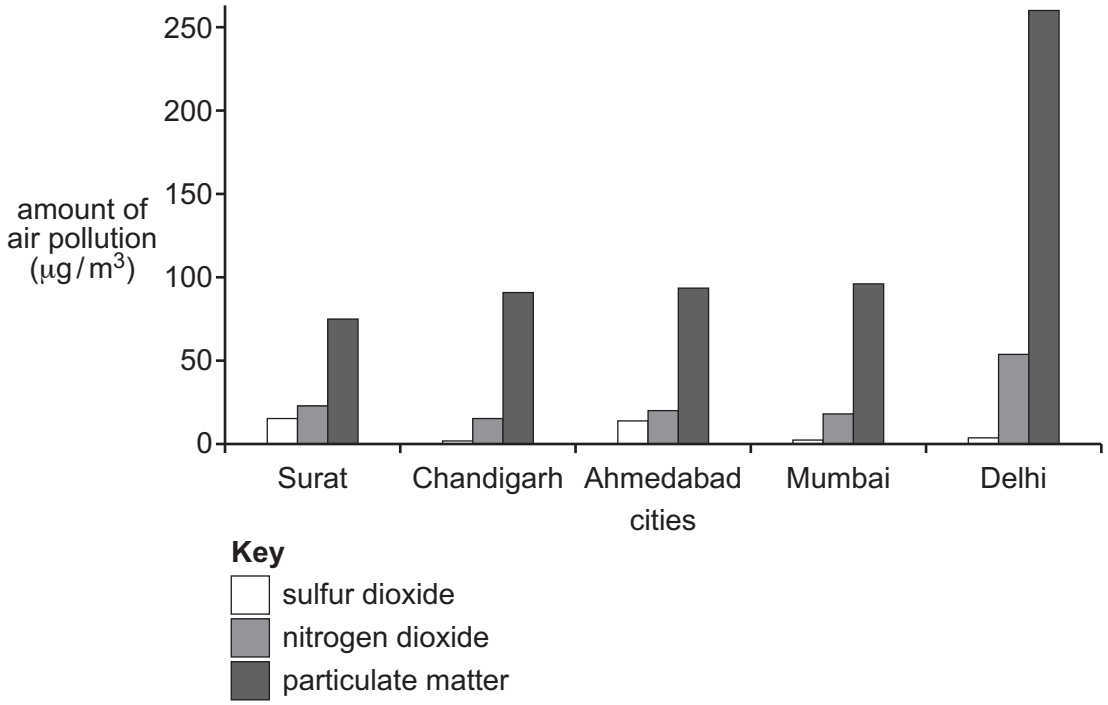


Fig. 2.5

(i) Describe **three** differences in the levels of air pollution in Ahmedabad and Delhi. Do **not** use statistics in your answer.

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..... [3]

(ii) Describe the impacts of air pollution on people who live in urban areas.

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(c) For a named urban area you have studied, explain the causes of inequality.

Name of urban area .....

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[Total: 25]

Section B

Answer **one** question from this section.

3 **(a)** Study Fig. 3.1 (Insert), which is a photograph of a coastal landform.

(i) Identify the type of coastal landform marked by **X** in Fig. 3.1.

..... [1]

(ii) Describe **two** features of the coastal landform shown in Fig. 3.1.

1 .....

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2 .....

..... [2]

(iii) Suggest how the landform shown in Fig. 3.1 may change in the future as a result of coastal erosion.

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..... [3]

(iv) The coastal landform shown in Fig. 3.1 is located on a headland. Explain why headlands form along some coastlines.

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(b) Study Fig. 3.2, which is a map showing the delta of the River Nile.

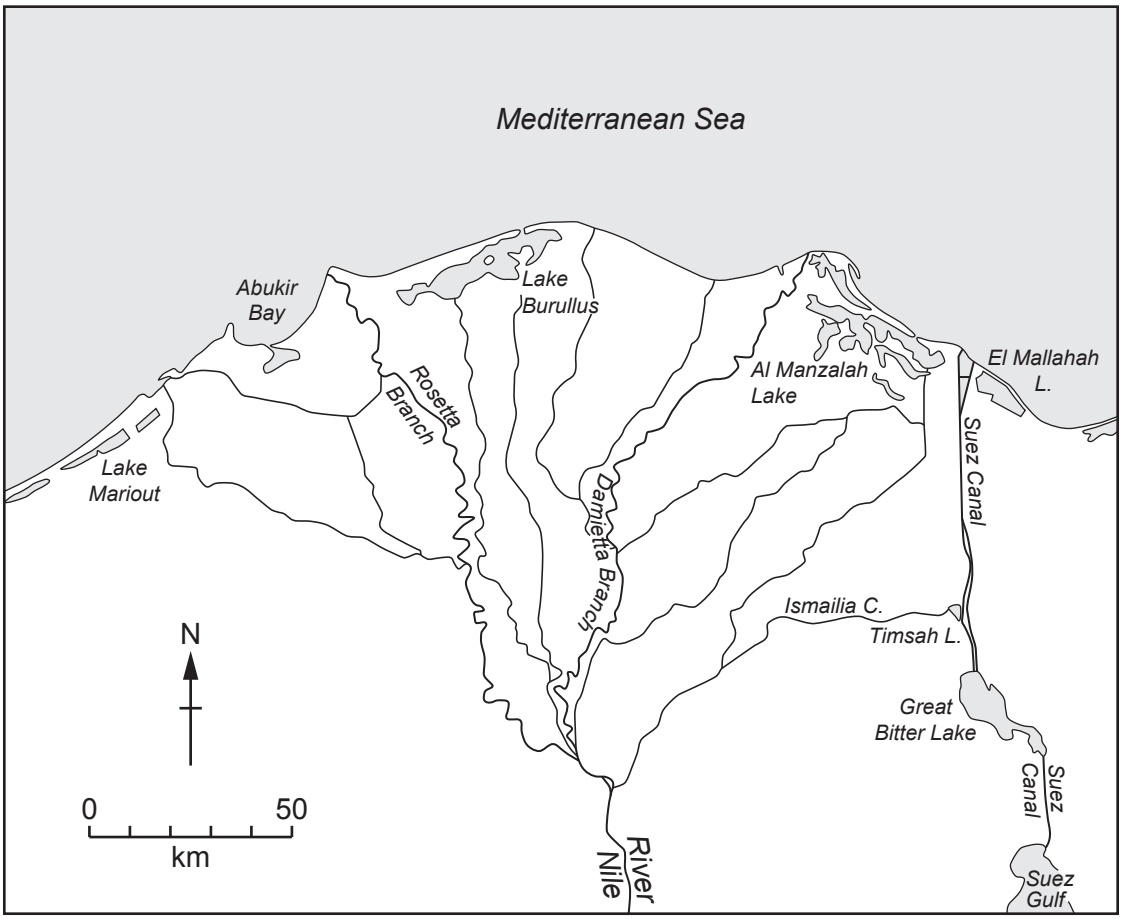


Fig. 3.2

(i) Using Fig. 3.2 **only**, describe the shape and size of the delta.

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..... [3]

(ii) Suggest why the River Nile has formed a delta in the area shown in Fig. 3.2.

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(c) For a named coastline you have studied, describe the hazards resulting from natural processes and their impacts on people.

Name of coastline .....

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[Total: 25]

4 **(a)** Study Fig. 4.1, which shows two traditional weather instruments.

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Fig. 4.1

(i) Which weather element is measured by the two instruments shown in Fig. 4.1?
Underline **one** answer from the list below.

humidity precipitation temperature wind [1]

(ii) Explain how readings are taken from the two weather instruments shown in Fig. 4.1.

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..... [2]

(iii) Describe and explain an ideal location for the weather instruments shown in Fig. 4.1.

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(iv) Describe the disadvantages of using traditional instruments rather than digital ones to record weather data.

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(b) Study Fig. 4.2, which shows the maximum and minimum temperatures at Maleny, Australia, during January 2018.

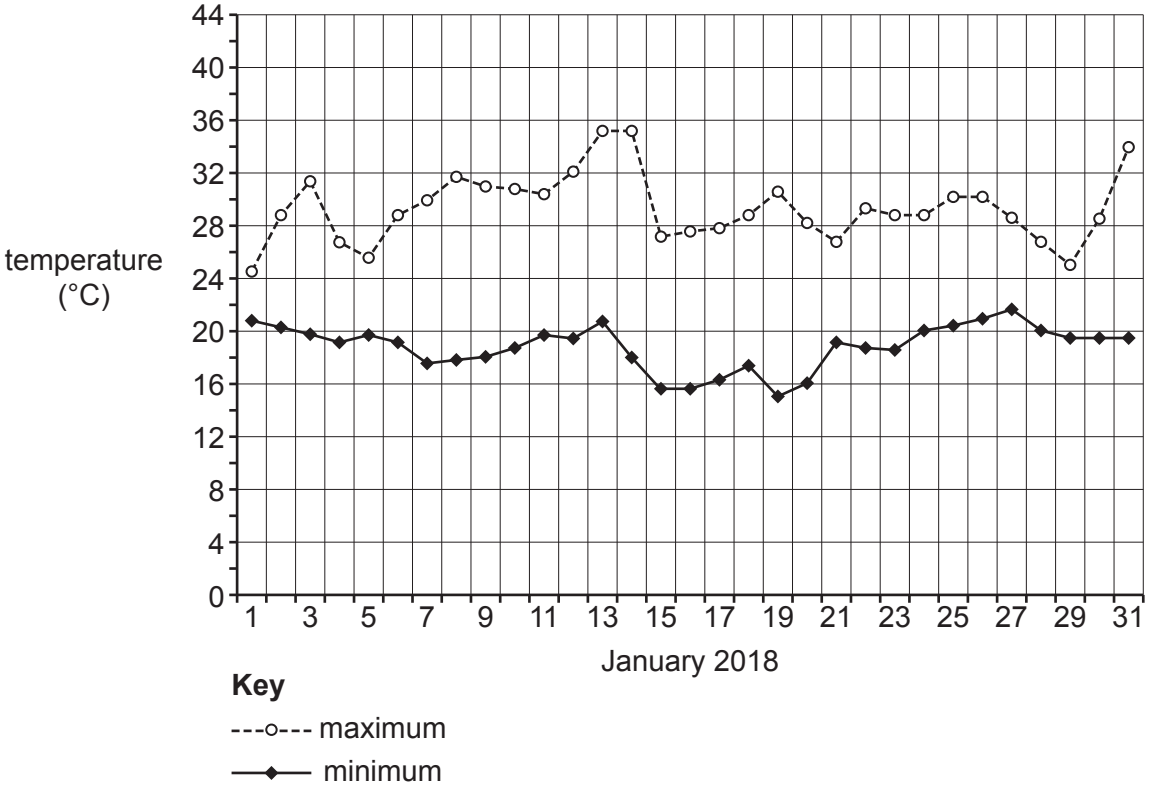


Fig. 4.2

(i) Compare the daily range of temperature on the 1 and 31 of January 2018 at Maleny. Use statistics in your answer.

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..... [3]

(ii) Explain how a **traditional** weather instrument **can be used** to obtain data to show changes in maximum and minimum temperature for a period of one month.

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(c) For a named river you have studied, explain why flooding occurs.

Name of river ....

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[Total: 25]

Section C

Answer **one** question from this section.

5 **(a)** Study Fig. 5.1, which shows information about employment in the tourist industry in selected countries.

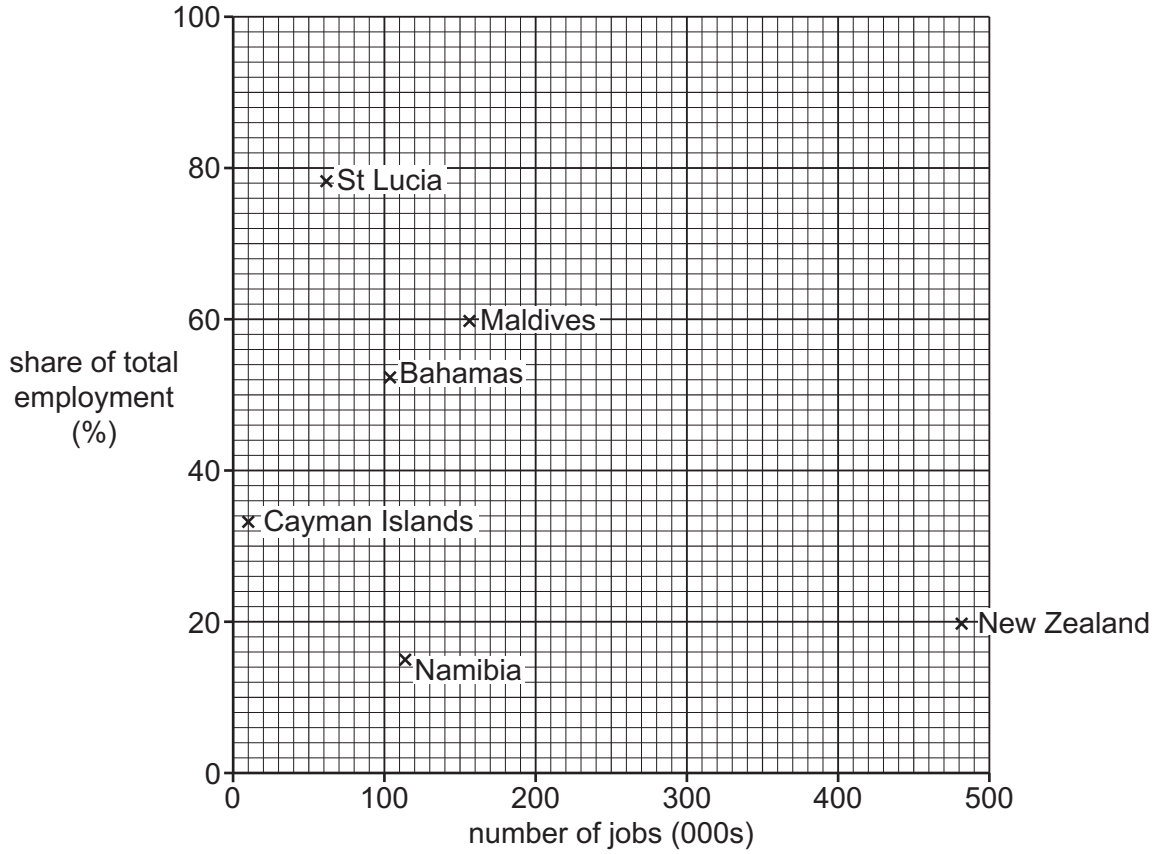


Fig. 5.1

(i) **Complete Fig. 5.1** by plotting the following information for Jamaica:

There are 400 000 jobs in the tourist industry.

30% of total employment is in the tourist industry. [1]

(ii) Put the following countries in rank order according to the number of jobs in the tourist industry.

Namibia New Zealand St Lucia

..... most jobs in the tourist industry

.....

..... least jobs in the tourist industry [2]

(iii) Use Fig. 5.1 **only** to identify the country from the list below in which you think the tourist industry is most important. Give reasons for your answer.

Cayman Islands Bahamas Maldives

Name of country .....

Reasons for choice .....

.....

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..... [3]

(iv) Suggest different types of jobs in the tourist industry which are likely to be available in countries such as those listed in **(iii)**.

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(b) Study Fig. 5.2, which shows the amount of money spent by international tourists in Australia between 2010 and 2018.

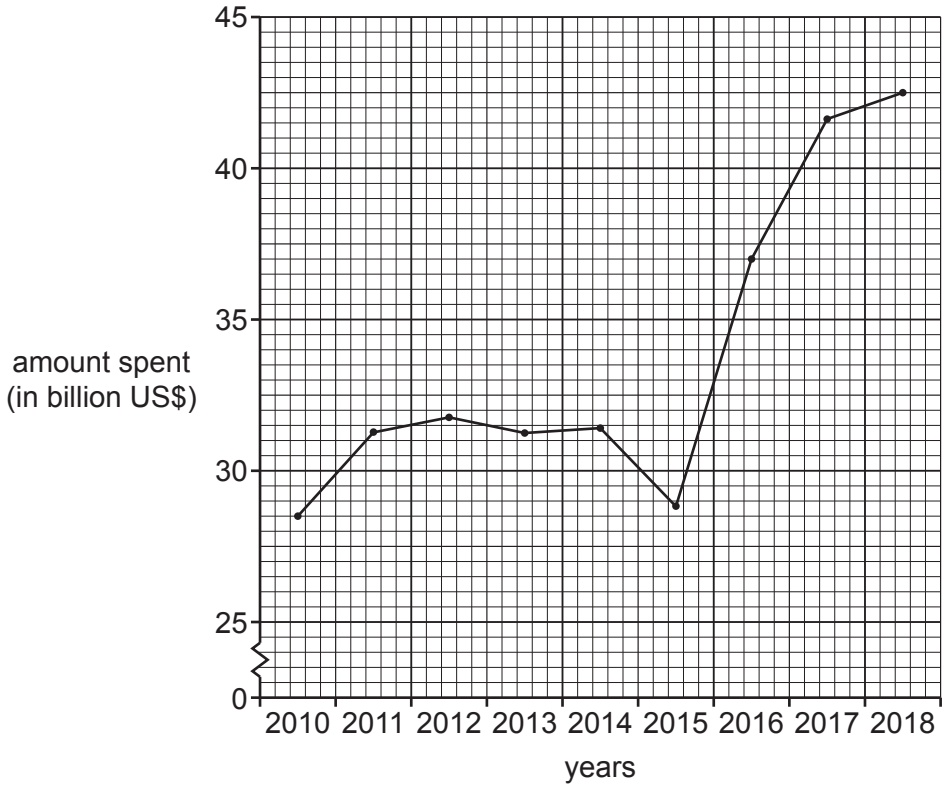


Fig. 5.2

(i) Describe the changes in the amount of money spent by international tourists in Australia between 2010 and 2018. Do **not** use statistics in your answer.

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..... [3]

(ii) Explain how the local natural environment may be at risk when large-scale tourism becomes important in an area.

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(c) For a named example you have studied, explain how physical (natural) attractions have led to the development of the tourist industry.

Name of example .....

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6 **(a)** Study Fig. 6.1, which shows some information about the production of one cotton T-shirt.

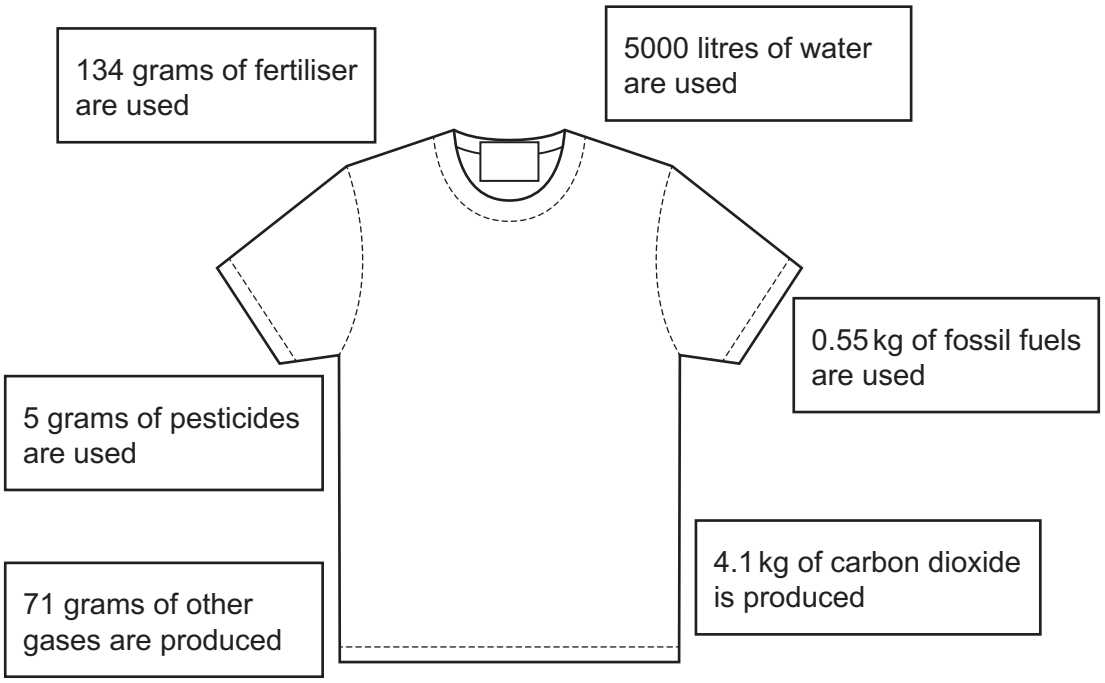


Fig. 6.1

(i) Name **one** example of a fossil fuel.

..... [1]

(ii) Using Fig. 6.1, identify the **two** inputs used by cotton farmers which will pollute local rivers.

1 .....

2 ..... [2]

(iii) Explain why river pollution is a threat to the local natural environment.

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(iv) Explain how carbon dioxide produced by economic activities causes global warming to increase.

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(b) Study Fig. 6.2, which shows information about the main causes of soil erosion.

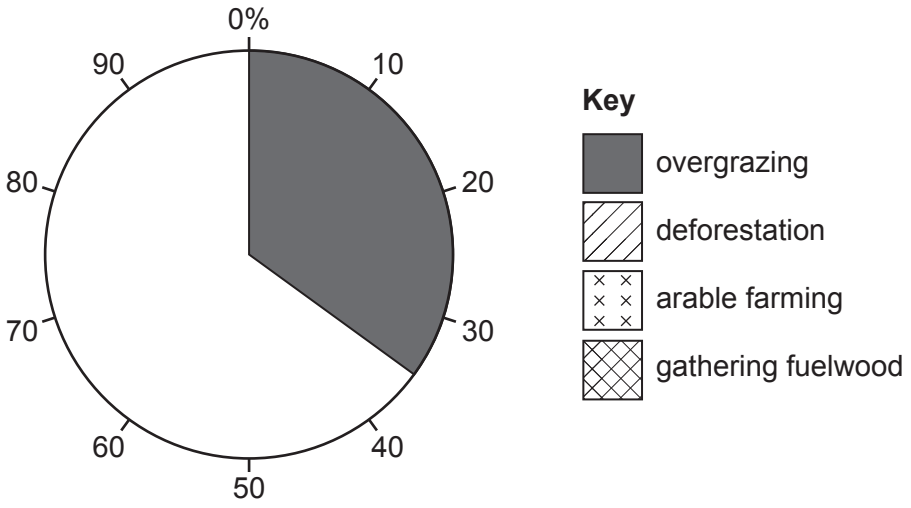


Fig. 6.2

(i) **Complete Fig. 6.2** by plotting the following information:

cause of soil erosion	**percentage**
deforestation	30
arable farming	28
gathering fuelwood	7

[3]

(ii) Explain how economic activities, such as those shown in Fig. 6.2, contribute to soil erosion.

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(c) Describe the effects of **desertification** on people and the natural environment.
You should refer to places where desertification is occurring.

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Additional pages

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