

1

(a) Look at **Fig. 1a** and **Fig. 1b** in the Resource Booklet.

(i) Describe the **location** of the Amazon rainforest.

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..... [2]

(ii) Compare the location of Manaus with other cities in Brazil.

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..... [2]

Deforestation is the permanent and rapid clearance of a forest, usually by the cutting down or burning of trees.

(b) Look at **Fig. 2** in the Resource Booklet.

(i) State how much forest was **lost** in 2008.

..... hectares [1]

(ii) Describe the pattern of **deforestation** in the Amazon rainforest between 2002–2020.

.....

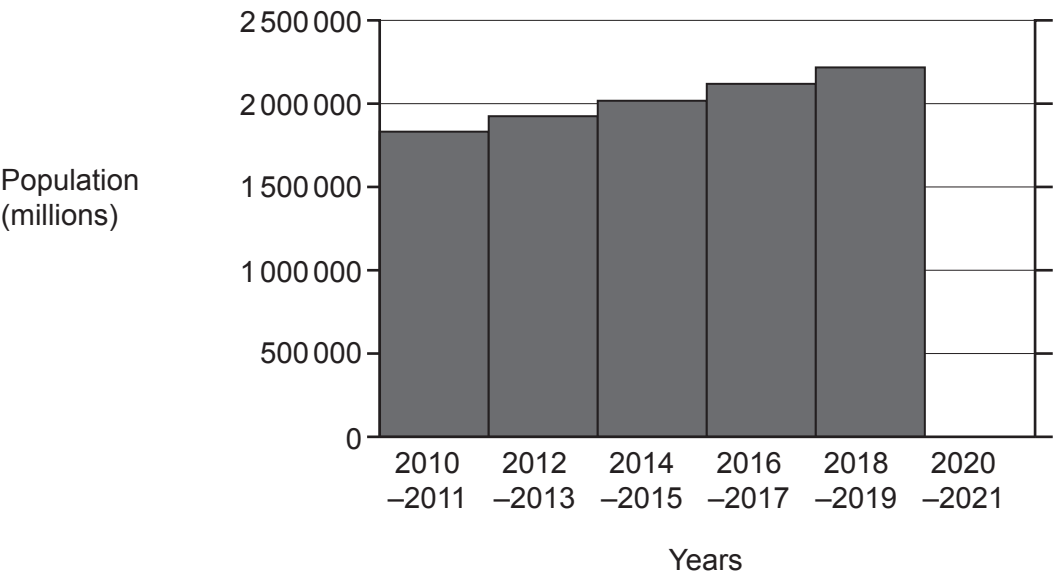
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..... [3]

2

(a) Look at the graph below, showing population growth in Manaus, 2010–2021.



(i) **Complete** the graph above for 2020–2021 using the data in the table below. [1]

Year	Population (millions)
2020–2021	2.3

(ii) Calculate the **percentage change** in total population between 2010–2011 and 2020–2021.

You **must** show your working.

Answer % [2]

(b)

Brazil population: 215 000 000 Manaus population: 2 300 000
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Look at the population data above.

(i) Calculate what **proportion** of Brazil’s population are living in the city of Manaus.

..... [1]

Look at **Fig. 3** in the Resource Booklet.

(ii) Explain why people may choose to **migrate** to the city of Manaus.

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..... **[3]**

(c) Look at **Fig. 4** in the Resource Booklet.

(i) Give **two** pieces of evidence from the photographs to show the consequences of rapid urban growth.

1

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2

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

(ii) Explain the **impact** on the city of Manaus if migration continues to increase.

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..... **[6]**

3 Look at **Fig. 6** in the Resource Booklet.

(a) Describe **two** impacts of **deforestation** on the Amazon rainforest ecosystem.

1

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2

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..... [4]

Look at **Fig. 7** in the Resource Booklet.

(b) Explain why flooding is becoming an **increasing risk** to the people that live in Manaus.

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..... [6]

4* 1. Examine the reasons **why** the President of Brazil wants to develop the Amazon rainforest.

2. Suggest how the **proposed** developments may impact on the city of Manaus.

Blank lined paper for writing.

END OF QUESTION PAPER

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