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## GEOGRAPHY

0460/11

Paper 1 Geographical Themes

October/November 2021

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

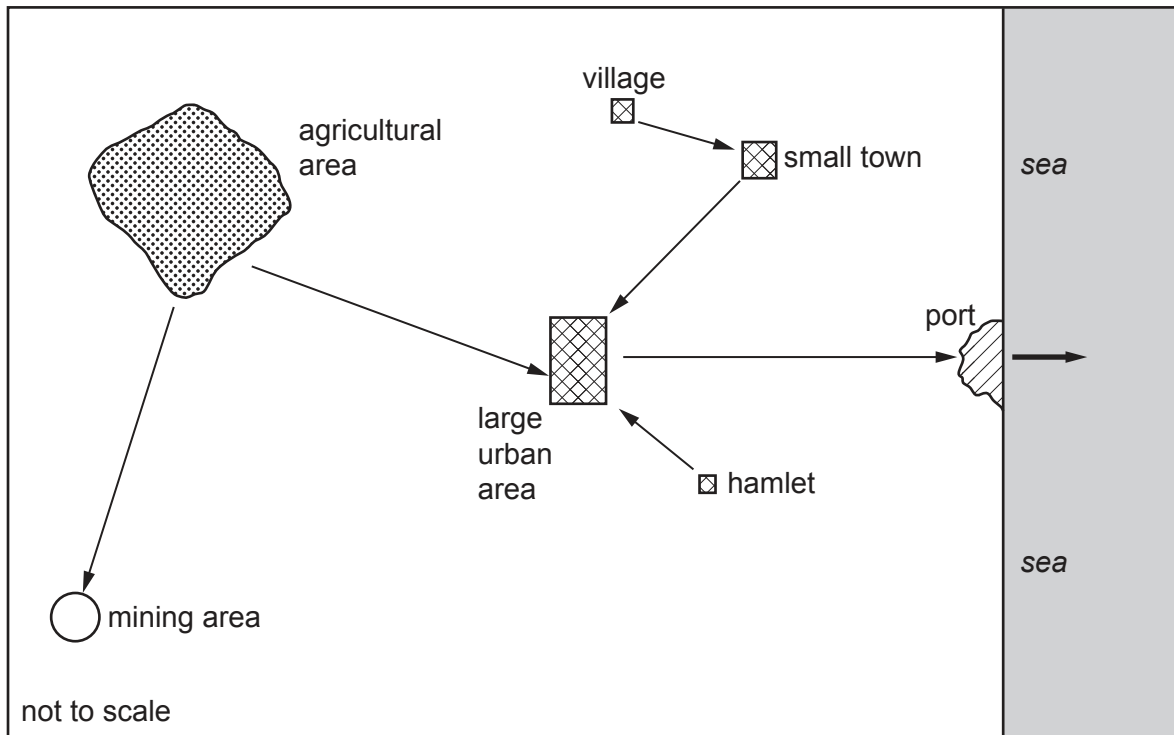
LEDCs – Less Economically Developed Countries

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

**Section A**

Answer **one** question from this section.

- 1 (a) Study Fig. 1.1, which shows different examples of human migration within and from an LEDC.



**Key**

→ human migration

**Fig. 1.1**

- (i) What is meant by *human migration*?

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

- (ii) Identify **two** areas or types of settlement shown in Fig. 1.1 which have experienced negative net migration

1 .....

2 ..... [2]

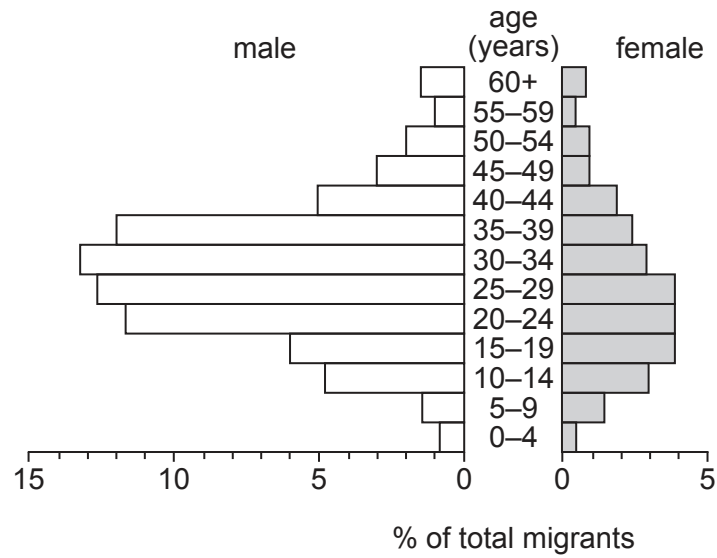
(iii) Give **three** different reasons why international migration takes place from LEDCs.

- 1 .....
- .....
- 2 .....
- .....
- 3 .....
- ..... [3]

(iv) Explain why some countries encourage immigration to them but other countries limit the number of immigrants entering the country.

- .....
- .....
- .....
- .....
- .....
- .....
- .....
- .....
- .....
- ..... [4]

- (b) Study Fig. 1.2, which shows a population pyramid of people who have migrated to Manila, in the Philippines (an LEDC in Asia).



**Fig. 1.2**

- (i) Using Fig. 1.2 **only**, describe the population structure of the people who have migrated to Manila.

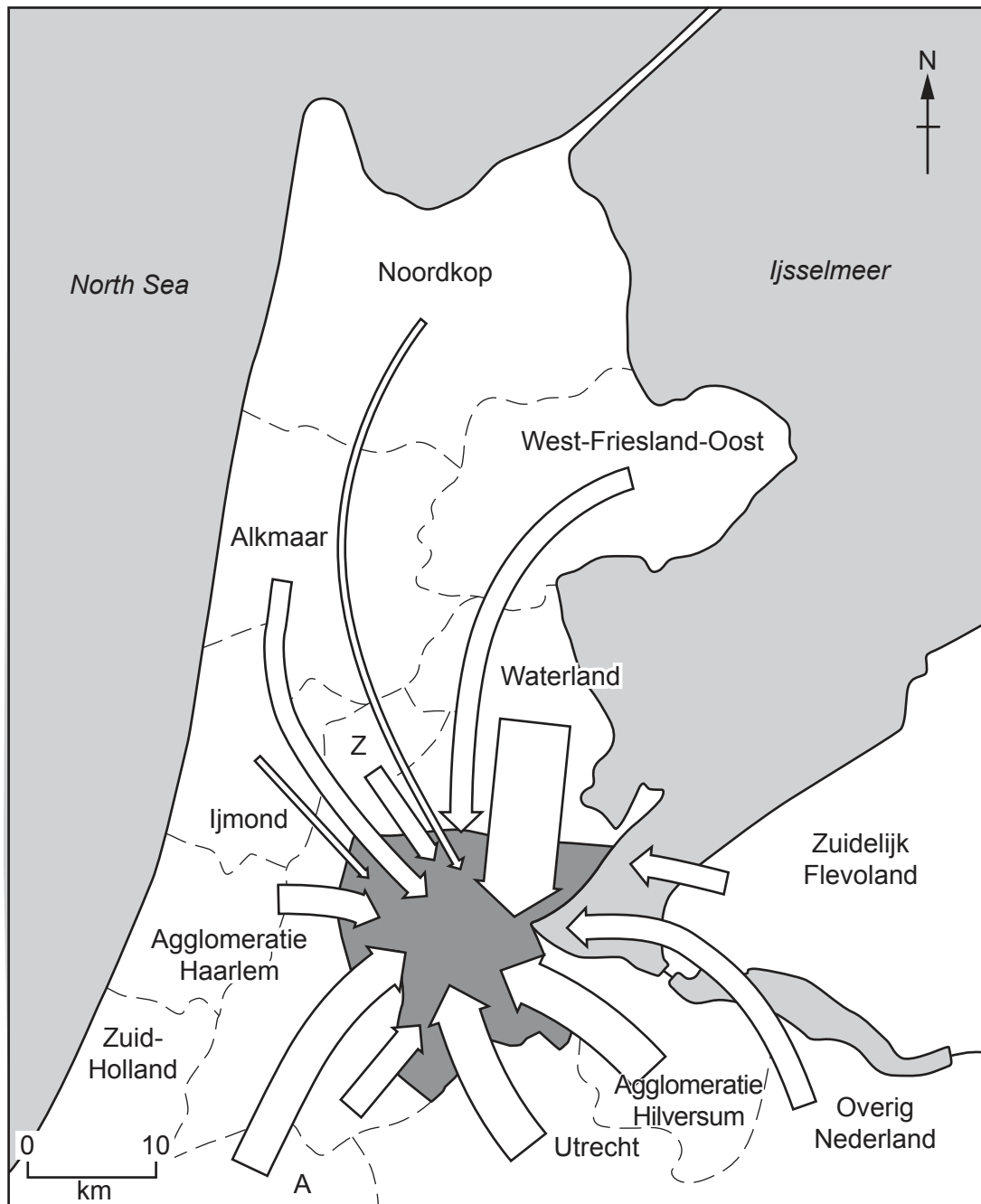
..... [3]

- (ii) Describe the impacts of migration to urban areas in LEDCs **on the rural areas** from which people have migrated.

..... [5]

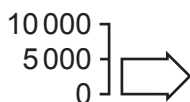


- 2 (a) Study Fig. 2.1, which is a map showing numbers of commuters to Amsterdam, a city in the Netherlands (an MEDC in Europe). A commuter is a person who travels daily to work.



**Key**

number of commuters into Amsterdam



--- district boundary



Amsterdam

Z Zaanstreek

A Alphen aan den Rijn

**Fig. 2.1**

- (i) Put the following regions in rank order according to the number of commuters travelling from them into Amsterdam.

Alkmaar	Noordkop	Waterland	
1st .....		most commuters	
2nd .....		↕	
3rd .....		fewest commuters	[1]

- (ii) Describe the relationship between distance from Amsterdam and the number of commuters. Refer to named districts in your answer.

.....

.....

.....

..... [2]

- (iii) Explain why large numbers of commuters may cause traffic congestion in urban areas.

.....

.....

.....

.....

.....

..... [3]

- (iv) Explain why it is important to reduce traffic congestion in urban areas.

.....

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.....

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..... [4]

(b) Study Fig. 2.2, which shows strategies which can be used to reduce traffic problems in Amsterdam.

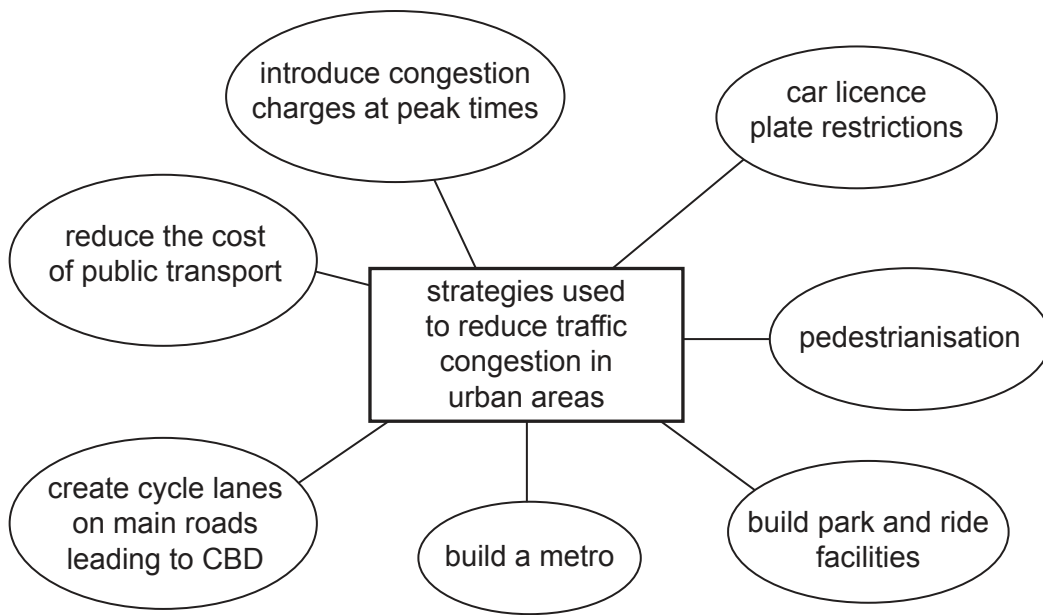


Fig. 2.2

(i) Choose any **three** of the strategies shown in Fig. 2.2. For each strategy you have chosen explain its meaning.

Strategy 1 .....

.....

.....

Strategy 2 .....

.....

.....

Strategy 3 .....

.....

..... [3]





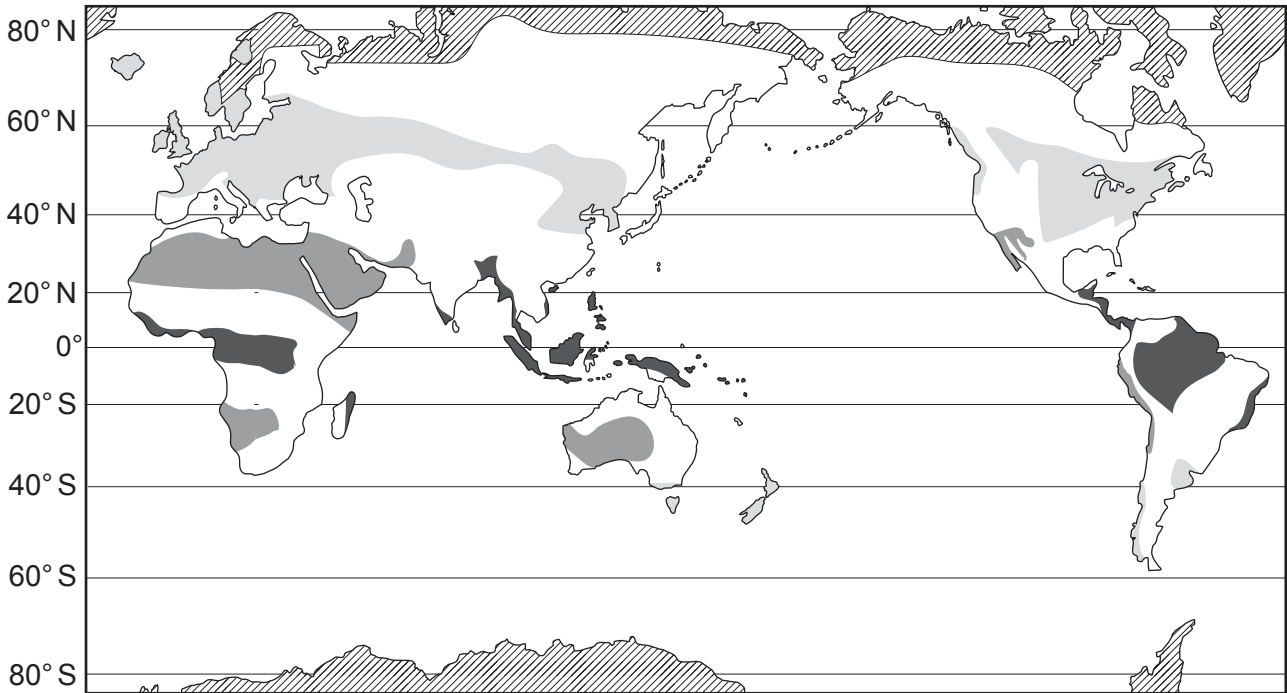


**TURN PAGE FOR QUESTION 3**

**Section B**

Answer **one** question from this section.

**3 (a)** Study Fig. 3.1, which shows four climatic zones.



**Key**

-  **A**
-  **B**
-  **C**
-  **D**

**Fig. 3.1**

(i) Which zone in Fig. 3.1, **A**, **B**, **C** or **D**, has an equatorial climate?

..... [1]

(ii) Arrange the following statements in the correct sequence to describe the typical daily weather pattern of areas with an equatorial climate:

- by sunset the sky is clear
- heavy rain falls
- sun rises in a clear sky
- cumulus clouds are formed
- sky becomes covered by clouds

1 .....

2 .....

3 .....

4 .....

5 ..... [2]

(iii) Explain why there is little seasonal variation in climate in equatorial areas.

.....

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..... [3]

(iv) Describe the processes which result in convective rainfall in equatorial areas.

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..... [4]

(b) Study Fig. 3.2, which shows part of the ecosystem in an area of tropical rainforest.

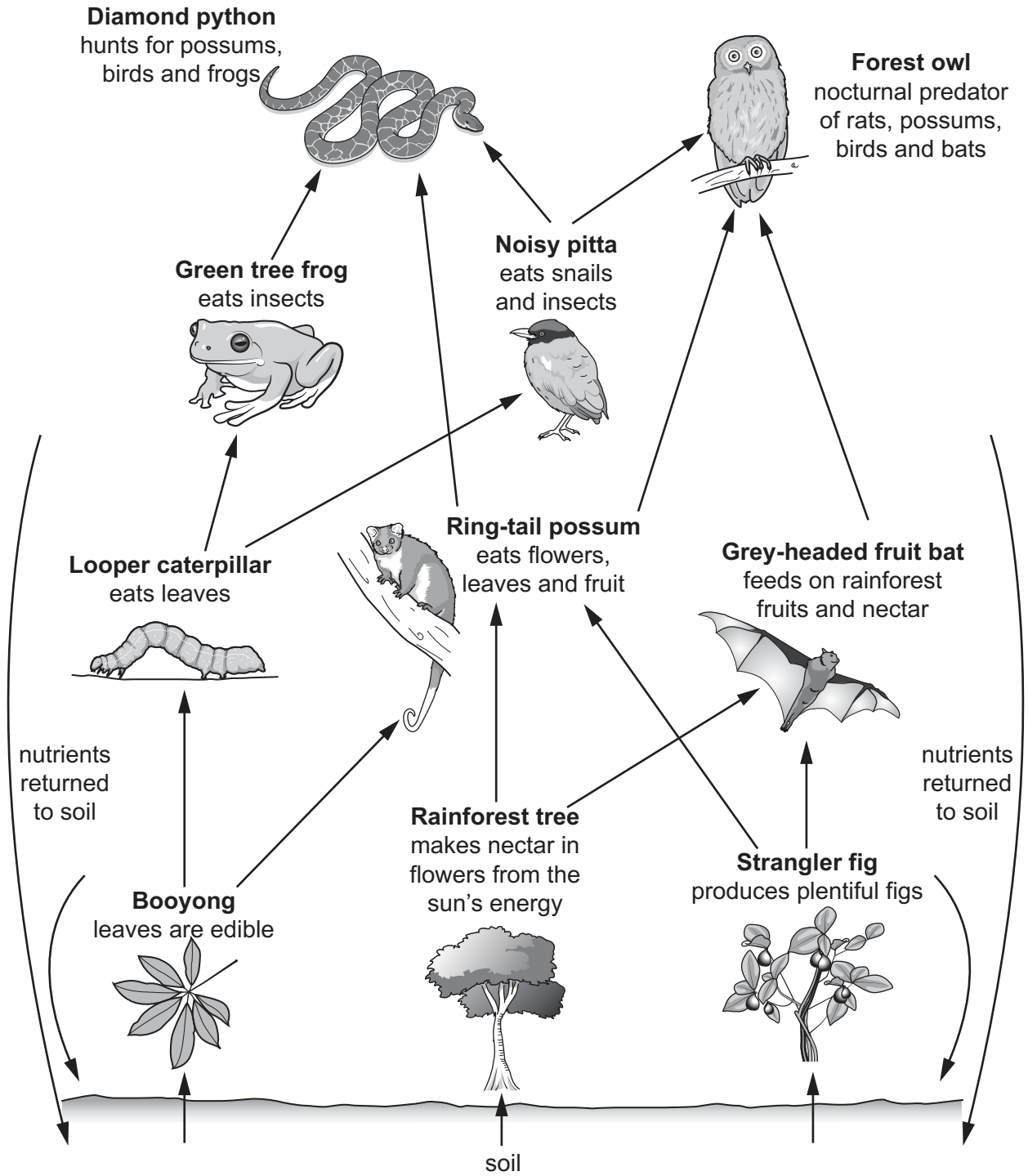


Fig. 3.2

(i) Using Fig. 3.2 **only**, describe **three** different ways in which vegetation, soil and wildlife depend on each other in a tropical rainforest.

1 .....

.....

2 .....

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3 .....

..... [3]

(ii) Describe the main characteristics of the natural vegetation in a tropical rainforest.

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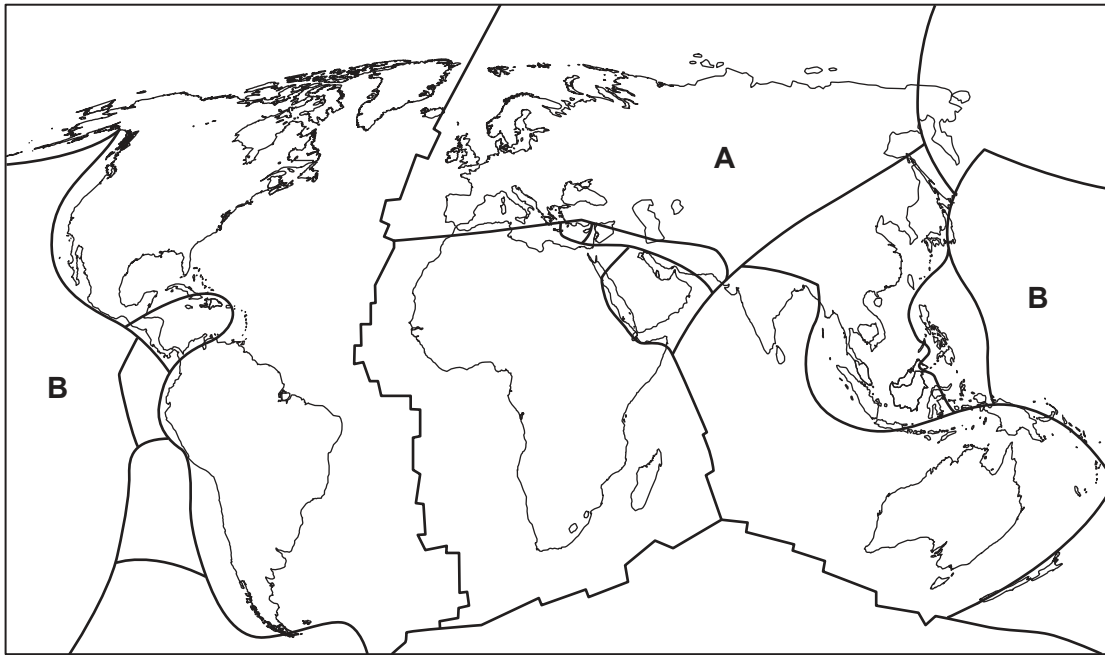
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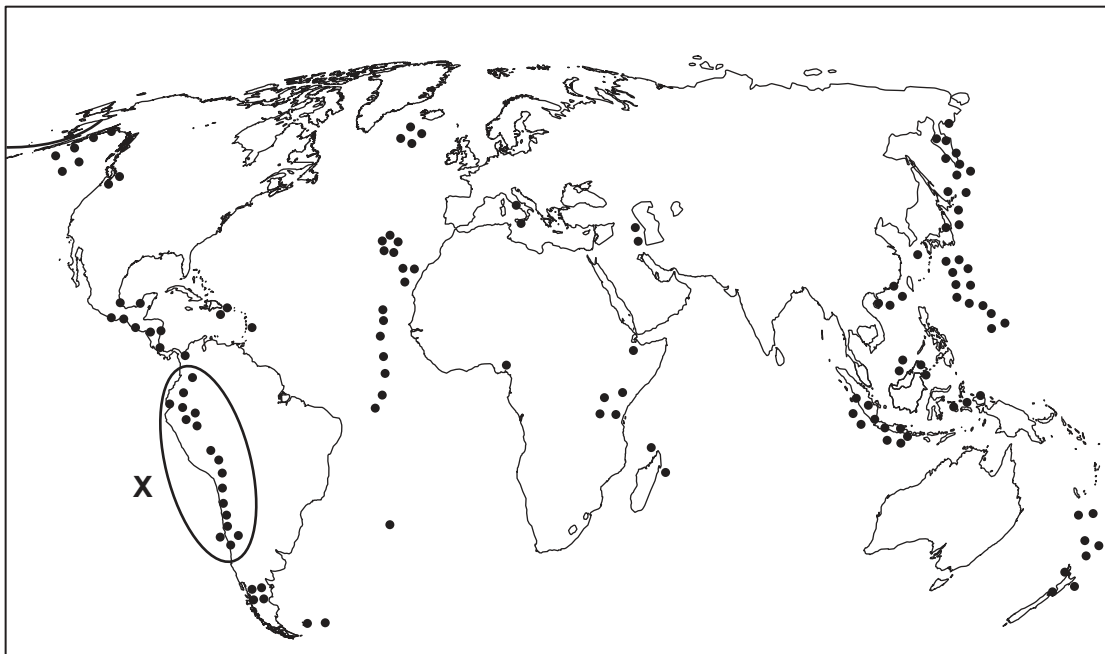
4 (a) Study Figs. 4.1 and 4.2, which show information about plate boundaries and volcanoes.



**Key**

— plate boundaries

**Fig. 4.1**



**Key**

••• active volcanoes

**Fig. 4.2**

(i) Using Fig. 4.1, define the term *plate*.

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

(ii) Name the plates labelled **A** and **B** in Fig. 4.1.

Choose from the following list.

- |                       |                 |                |
|-----------------------|-----------------|----------------|
| African Plate         | Caribbean Plate | Eurasian Plate |
| Indo-Australian Plate | Nazca Plate     | Pacific Plate  |

**A** .....

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

(iii) Describe the distribution of the active volcanoes shown in Fig. 4.2.

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

(iv) Area **X** on Fig. 4.2 is a destructive (convergent) plate boundary. Explain why there are active volcanoes in the area labelled **X**.

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.....  
.....  
..... [4]

(b) Study Fig. 4.3, which shows an area affected by an earthquake.

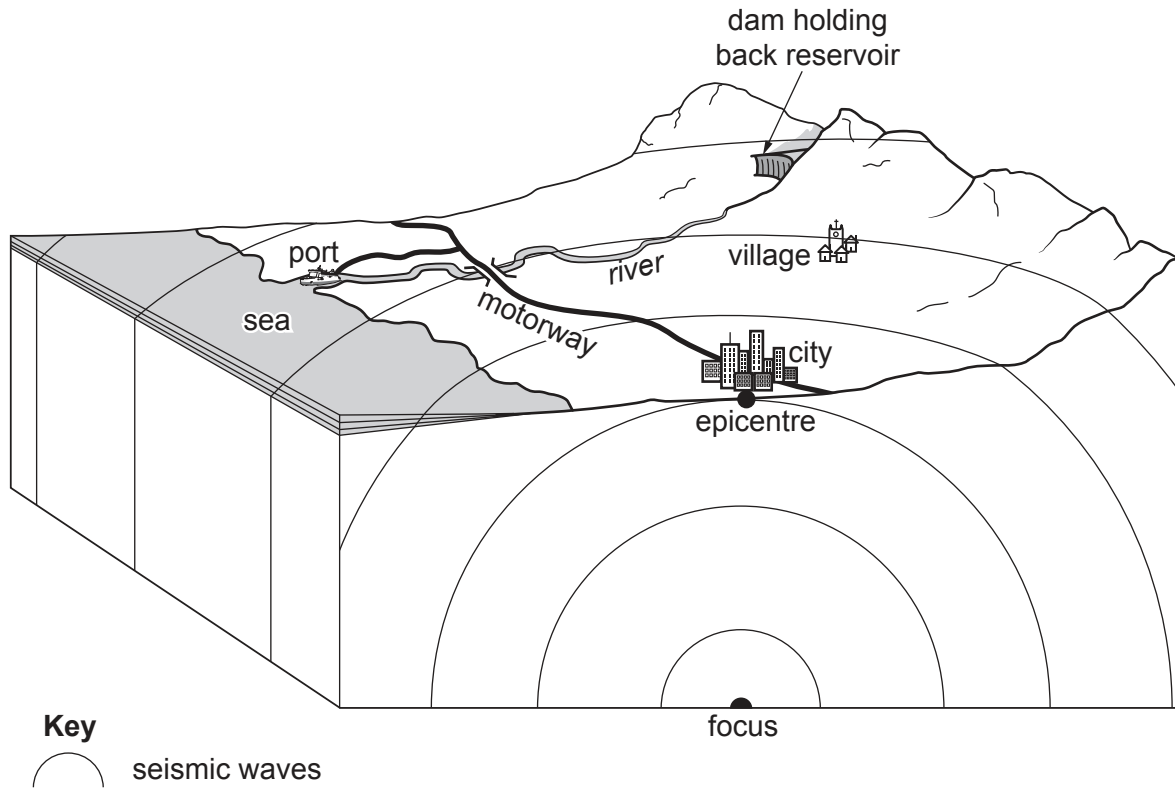


Fig. 4.3

(i) State **three** problems that may be caused by the earthquake for people who live in the area shown in Fig. 4.3.

- 1 .....
  - 2 .....
  - 3 .....
- [3]





Section C

Answer **one** question from this section.

5 (a) Study Fig. 5.1 (Insert), which shows agricultural land use in Syria.

(i) Identify the most common agricultural land use in Syria.

..... [1]

(ii) Identify **two** crops grown within 50 km of Damascus, the capital city of Syria.

1 .....

2 ..... [2]

(iii) Using evidence from Fig. 5.1 **only**, suggest **three** reasons why farming is a more successful economic activity close to Latakia (population 383 000) than it is near Tadmur (population 51 000).

1 .....

.....

2 .....

.....

3 .....

..... [3]

(iv) Syria has recently experienced civil war. Explain why war may cause a country's food supply to decrease.

.....

.....

.....

.....

.....

.....

.....

..... [4]

(b) Study Figs. 5.2 and 5.3 (Insert), which are photographs of two different types of farm.

(i) Describe **three** differences between the farms shown in Figs. 5.2 and 5.3.

	Fig. 5.2	Fig. 5.3
Difference 1	..... ..... .....	..... ..... .....
Difference 2	..... ..... .....	..... ..... .....
Difference 3	..... ..... .....	..... ..... .....

[3]

(ii) Explain why relief influences agricultural land use.

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[5]





- 6 (a) Study Fig. 6.1, which shows some of the industrial processes involved in assembling jet engines.

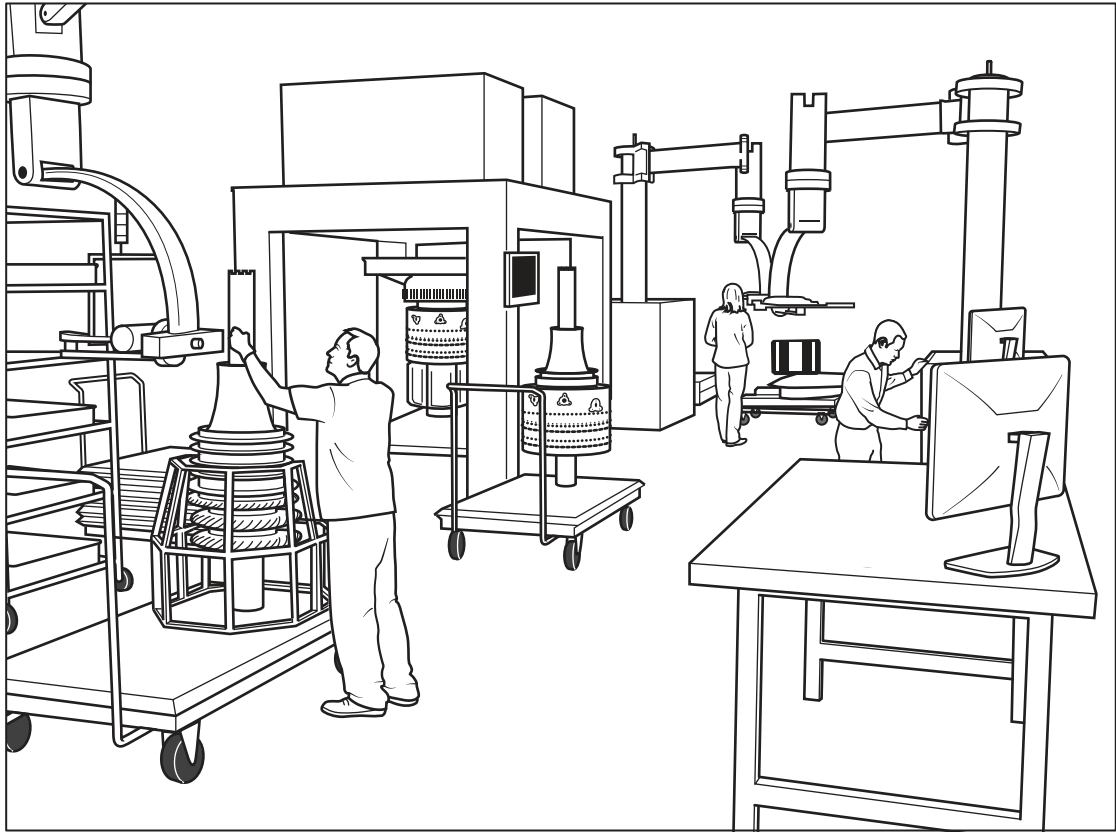


Fig. 6.1

- (i) What is meant by *industrial processes*?

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

- (ii) Using Fig. 6.1 **only**, describe **two** characteristics of the assembly industry shown.

1 .....

.....

2 .....

..... [2]

- (iii) Suggest reasons why assembly industries such as that shown in Fig. 6.1 might cause fewer problems for the local natural environment than manufacturing and processing industries.

.....

.....

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.....

..... [3]

- (b) Study Figs. 6.2 and 6.3 (Insert), which are photographs of two different factories.

- (i) Describe **three** differences between the factories shown in Figs. 6.2 and 6.3.

	Fig. 6.2	Fig. 6.3
Difference 1	..... ..... .....	..... ..... .....
Difference 2	..... ..... .....	..... ..... .....
Difference 3	..... ..... .....	..... ..... .....

[3]









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