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GEOGRAPHY **0460/21**

Paper 2 Geographical Skills **October/November 2024**

1 hour 30 minutes

You must answer on the question paper.

You will need: Insert (enclosed)
1:25 000 survey map (enclosed)
Calculator
Plain paper
Protractor
Ruler

INSTRUCTIONS

- Answer **all** questions.
- 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 60.
- The number of marks for each question or part question is shown in brackets [ ].
- The insert contains additional resources referred to in the questions.

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

This document has **20** pages. Any blank pages are indicated.

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[Turn over

1 Study the map extract for Wimereux, France. The scale is 1 : 25 000.

(a) Fig. 1.1 shows some of the features in the west of the map extract.

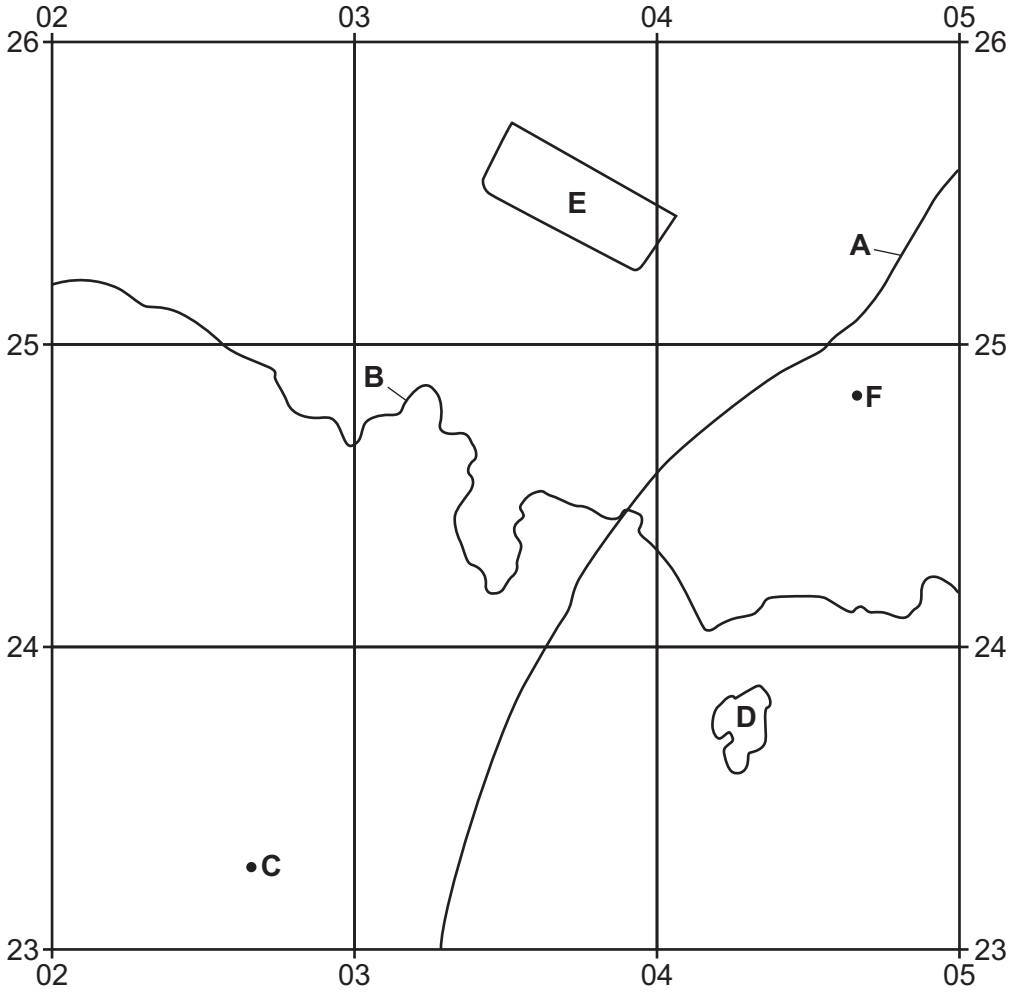


Fig. 1.1

Using the map extract, identify the following features shown in Fig. 1.1:

(i) the type of road at **A**

..... [1]

(ii) feature **B**

..... [1]

(iii) the height above sea level of the spot height at **C**

..... metres [1]

(iv) feature **D**

..... [1]

(v) the land use at **E**.

..... [1]

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(b) Give the six-figure grid reference of the spring **F** shown in Fig. 1.1.

..... [1]

(c) Identify **three** tourist services along the coastline.

1 .....

2 .....

3 .....

[3]

(d) Study the coastline on the western edge of the map extract.

(i) What is the distance (in metres) along the coastline between Pointe aux Oies and Pointe de la Rochette?

Tick (✓) one box.

	tick (✓)
550 m	
1150 m	
1550 m	
2050 m	

[1]

(ii) What is the compass direction **from** Pointe aux Oies **to** the leisure area in grid square 0224?

..... [1]

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(e) Fig. 1.2 is a cross-section along easting 07 from 070240 **in the south** to 070260 **in the north**.

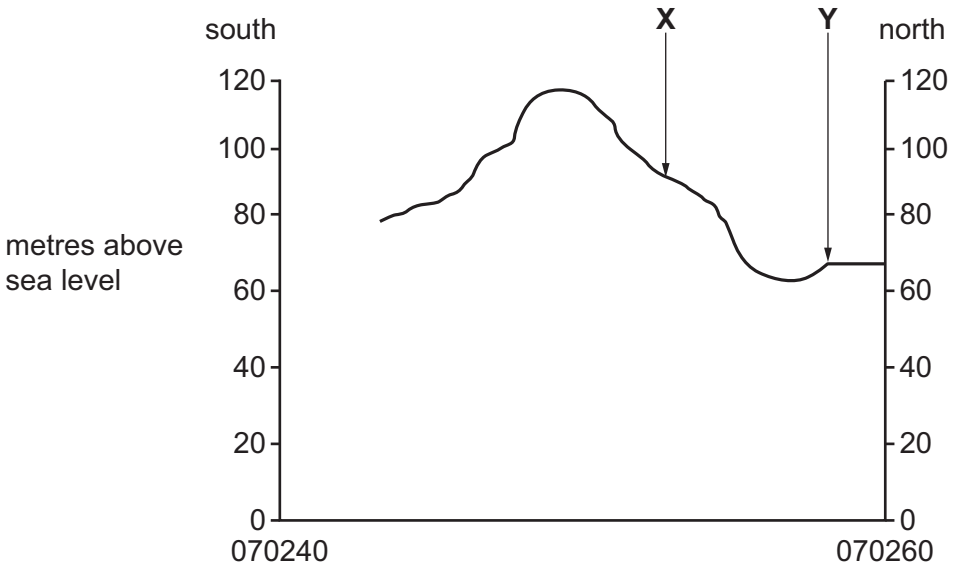


Fig. 1.2

(i) Identify the feature at **X**.

..... [1]

(ii) Identify the feature at **Y**.

..... [1]

(iii) The cross-section shown in Fig. 1.2 is incomplete. Using information from the map extract, draw a line on Fig. 1.2 to **complete the cross-section**. [1]

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(f) Study the settlement of Wimereux. Describe the site of the settlement and give reasons for its growth.

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..... [6]

[Total: 20]

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2 **(a)** Study Fig. 2.1 (Insert), which shows the population density of Kenya, an LEDC in eastern Africa.

The capital city of Kenya is Nairobi. Calculate the population density of Nairobi and **complete the following table**.

population	land area (km^2)	population density
4 397 073	704	..... km^2

[1]

(b) Using Fig 2.1, describe the distribution of population in Kenya.

Tick (✓) **two** correct answers.

	tick (✓)
There is even population density.	
There is uneven population density.	
Population is concentrated in the centre of Kenya.	
Population is concentrated in the north of Kenya.	
Population density is high along country borders.	
Population density is low along the coastline.	

[2]

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(c) Study Figs. 2.2 and 2.3 (Insert).

Fig. 2.2 shows the relief in Kenya, and Fig. 2.3 shows climatic zones in Kenya.

Using Figs. 2.1, 2.2 and 2.3 (Insert), suggest reasons why some areas of Kenya are more densely populated than others.

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..... [5]

[Total: 8]

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3 **(a)** Fig. 3.1 shows information about urban population.

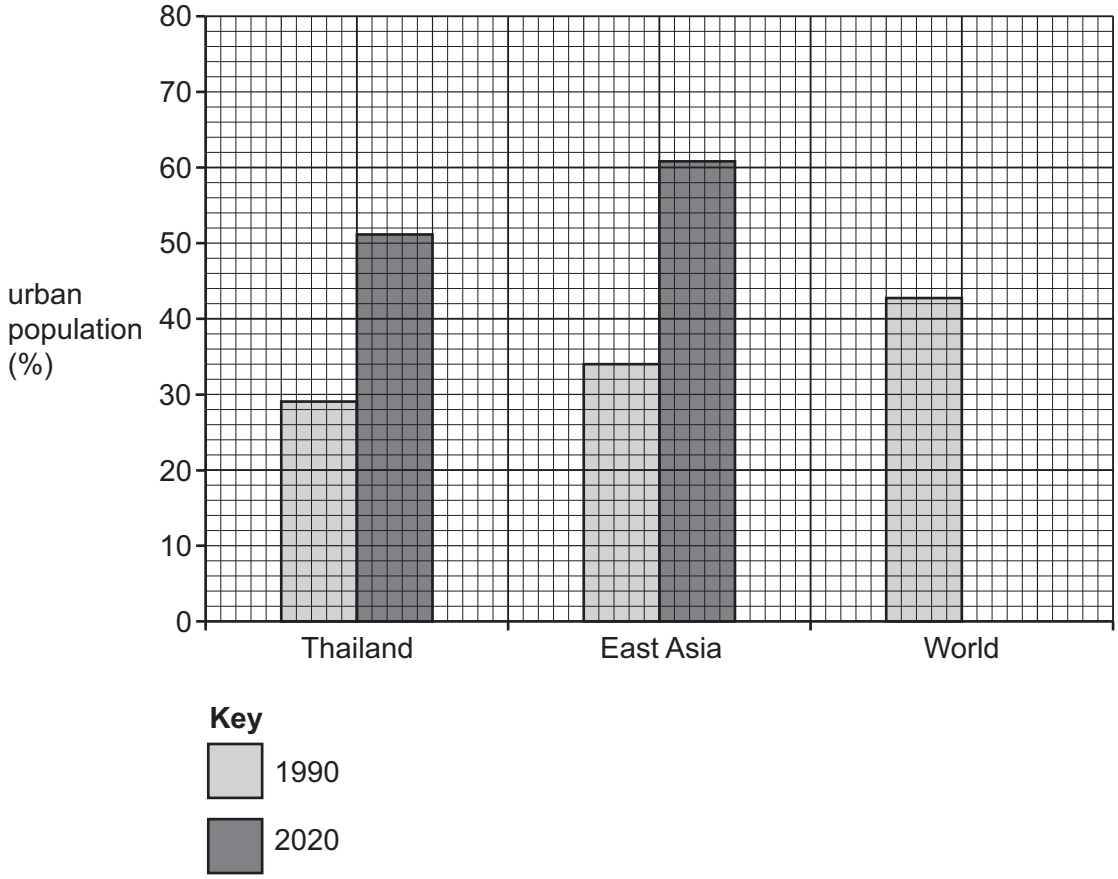


Fig. 3.1

(i) **Complete Fig. 3.1** to show that the world had an urban population of 56% in 2020. [1]

(ii) Using Fig. 3.1, describe the changes in urban population between 1990 and 2020. Use statistics in your answer.

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.....

..... [3]

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(b) Study Fig. 3.2 (Insert), which shows an urban settlement in Thailand, Asia.
Suggest why people migrate to live in urban areas such as the one shown in Fig. 3.2.

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..... [4]

[Total: 8]

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4 **(a)** Study Fig. 4.1, a map showing the location of the Tōhoku earthquake (Japan) that occurred on 11 March 2011. The epicentre was 72 km east of Tōhoku.

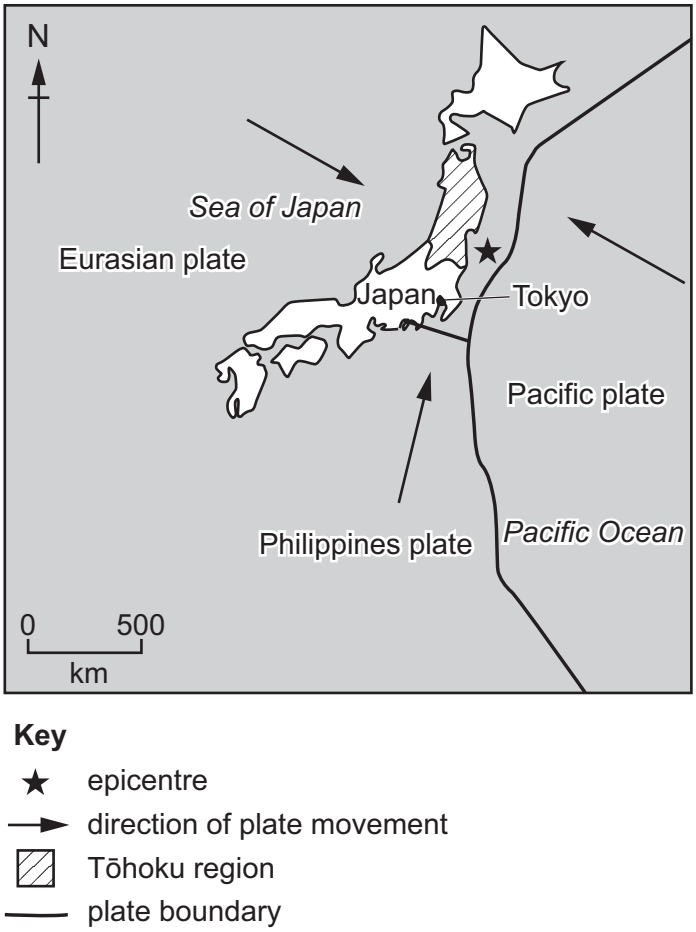


Fig. 4.1

(i) What is meant by the term *epicentre*?

.....

..... [1]

(ii) Using Fig. 4.1, identify the type of plate boundary that caused the Tōhoku earthquake.

..... [1]

(iii) Explain how the type of plate boundary shown in Fig. 4.1 causes earthquakes.

.....

.....

.....

..... [2]

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(b) The Tōhoku earthquake measured 9.0 on the Richter scale and resulted in over 20 000 deaths. Suggest **two** ways that the earthquake resulted in the death of people.

1 .....

.....

2 .....

.....

[2]

(c) It is possible to reduce the impacts of earthquakes by constructing buildings that are able to withstand strong ground movements.

Fig. 4.2 shows some of the features that can be used in these buildings.

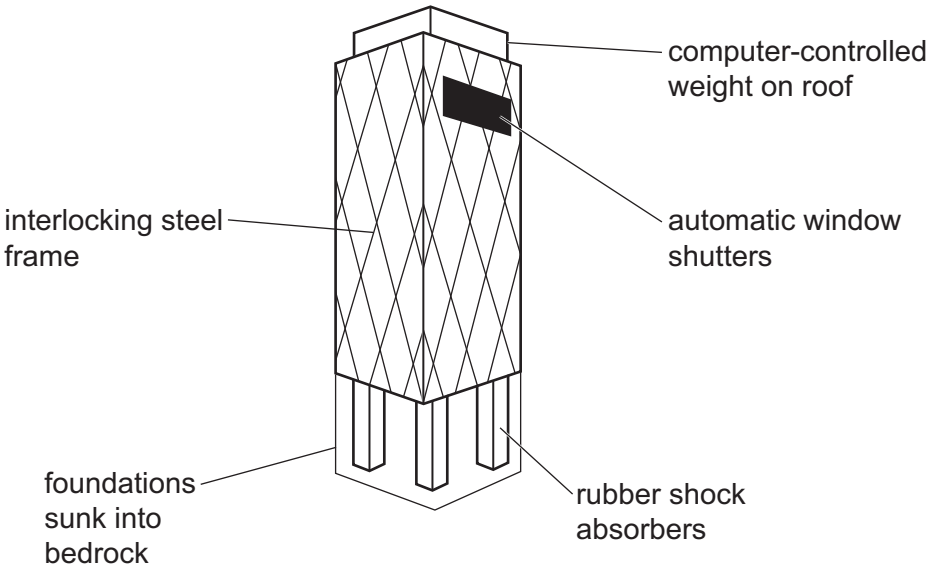


Fig. 4.2

Select **two** features from Fig. 4.2 and suggest how each one may reduce the impacts of earthquakes.

feature 1 selected: .....

.....

.....

feature 2 selected: .....

.....

.....

[2]

[Total: 8]

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5 **(a)** Study Fig. 5.1 (Insert), which shows information about the equatorial climate in Manaus, Brazil.

(i) What is the average monthly rainfall in June?

.....mm [1]

(ii) What is the average monthly temperature in November?

.....°C [1]

(iii) Calculate the annual temperature range for Manaus, Brazil. You should show your calculations.

.....°C

[2]

(b) Study Fig. 5.2 (Insert), which shows the tropical rainforest found in Manaus, Brazil. Using Fig. 5.2, identify **three** features which are typical of a tropical rainforest.

1 .....

2 .....

3 .....

[3]

(c) Deforestation of the tropical rainforest has been happening for many years.

State **one** reason for deforestation.

..... [1]

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6 **(a)** Study Table 6.1, which shows the percentage of the total population of each continent who suffered from severe food shortages in 2014 and 2018.

Table 6.1

	2014 %	**2018 %**
Africa	18.1	21.5
Asia	7.0	7.8
Australasia	2.4	3.6
Europe	1.7	1.0
North America	1.0	0.8
South America	5.6	8.3

Using Table 6.1, calculate the difference in the percentage of people suffering from severe food shortages in South America between 2014 and 2018.

..... % [1]

(b) **(i)** **Complete the table** to classify the reasons for food shortages listed.

drought *low capital investment* *floods*

transport difficulties *tropical storms* *pests* *rising prices*

natural causes	**economic causes**

[2]

(ii) Suggest **two** reasons why wars may cause food shortages.

1 .....

.....

2 .....

.....

[2]

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(c) Describe **three** different methods that can be used to increase food supplies.

1 .....

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2 .....

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[3]

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