* 0019655411501 *

Cambridge Assessment International Education

Cambridge IGCSE™

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

8957590359

GEOGRAPHY 0460/23

Paper 2 Geographical Skills

May/June 2024

1 hour 30 minutes

You must answer on the question paper.

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

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

This document has **16** pages. Any blank pages are indicated.

DC (PQ/JG) 338129/3

1 Study the map extract for the Badia de Roses, Spain. The scale is 1:25 000.

(a) Fig. 1.1 shows some of the features in the north-west of the map extract. Study Fig. 1.1 and the map extract.

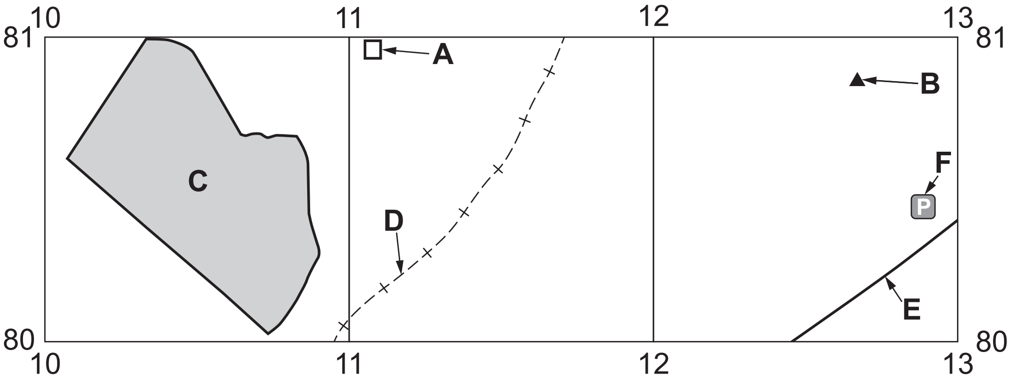

Fig. 1.1

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

(i) feature **A**

.... [1]

(ii) the height of the land at **B**

.... metres [1]

(iii) the land use at **C**

.... [1]

(iv) feature **D**

.... [1]

(v) the type of road at **E**.

.... [1]

(b) Identify the six-figure grid reference of the car park at **F** on Fig. 1.1. Tick (✓) **one** box.

	tick (✓)
128804	
128805	
803127	
808124	

[1]

(c) Study the area to the east of easting 14.

Using evidence from the map, identify **three** features which show this area is of historical importance.

1 ....

2 ....

3 ....

[3]

(d) Fig. 1.2 shows four roundabouts on the C260 National Road before it enters Roses. Locate these on the map extract.

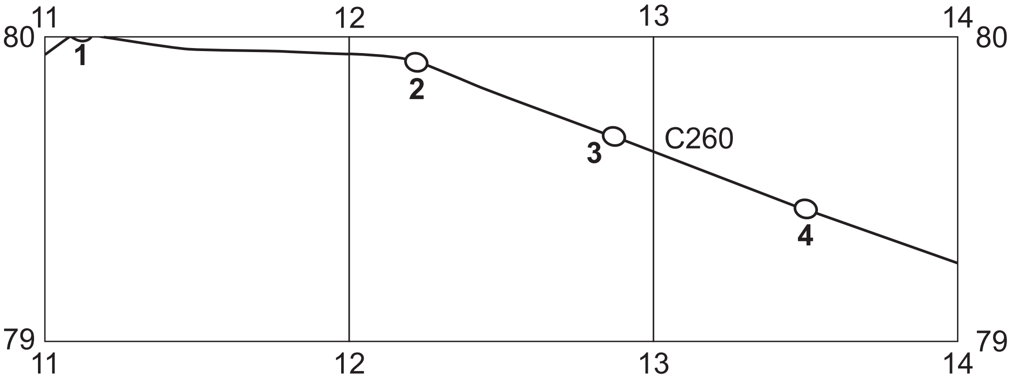

Fig. 1.2

(i) What is the compass direction **from** roundabout 2 **to** roundabout 4?

.... [1]

(ii) What is the distance along the C260 road between roundabout 1 and roundabout 4?

.... metres [1]

(iii) Measure the compass bearing **from** roundabout 1 **to** roundabout 4.

.... degrees [1]

(e) Study Figs. 1.3 and 1.4.

Fig. 1.3 shows an area in the south-west of the map at Empuriabrava. Fig. 1.4 shows an area near the centre of the map at Santa Margarida.

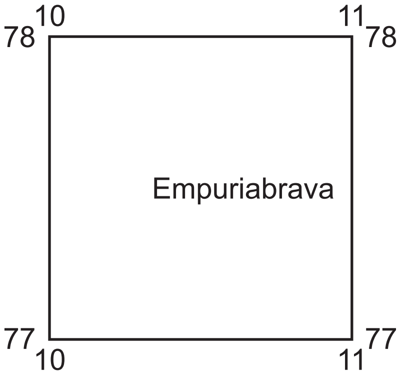

Fig. 1.3

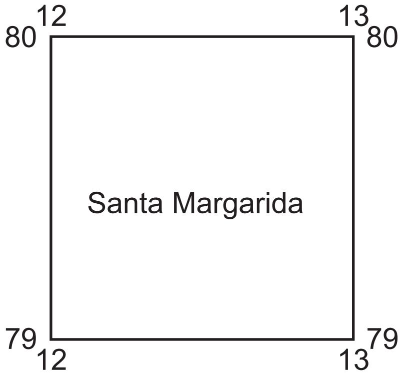

Fig. 1.4

Table 1.1 compares the features of both areas.

Complete the table by putting ticks (✓) in the correct **four** boxes. Use only **one** tick for each row.

Table 1.1

feature	**area in Fig. 1.3 at Empuriabrava**	**area in Fig. 1.4 at Santa Margarida**	**both of these areas**	**neither of these areas**
campsite				
hotel				
museum				
petrol station				

[4]

(f) Study the coastline to the west of easting 14 and to the east of easting 15.

Compare the natural features of the two coastal areas.

....

....

....

....

....

....

....

.... [4]

[Total: 20]

2 **(a)** Study Fig. 2.1, showing migration within mainland China over a five-year period.

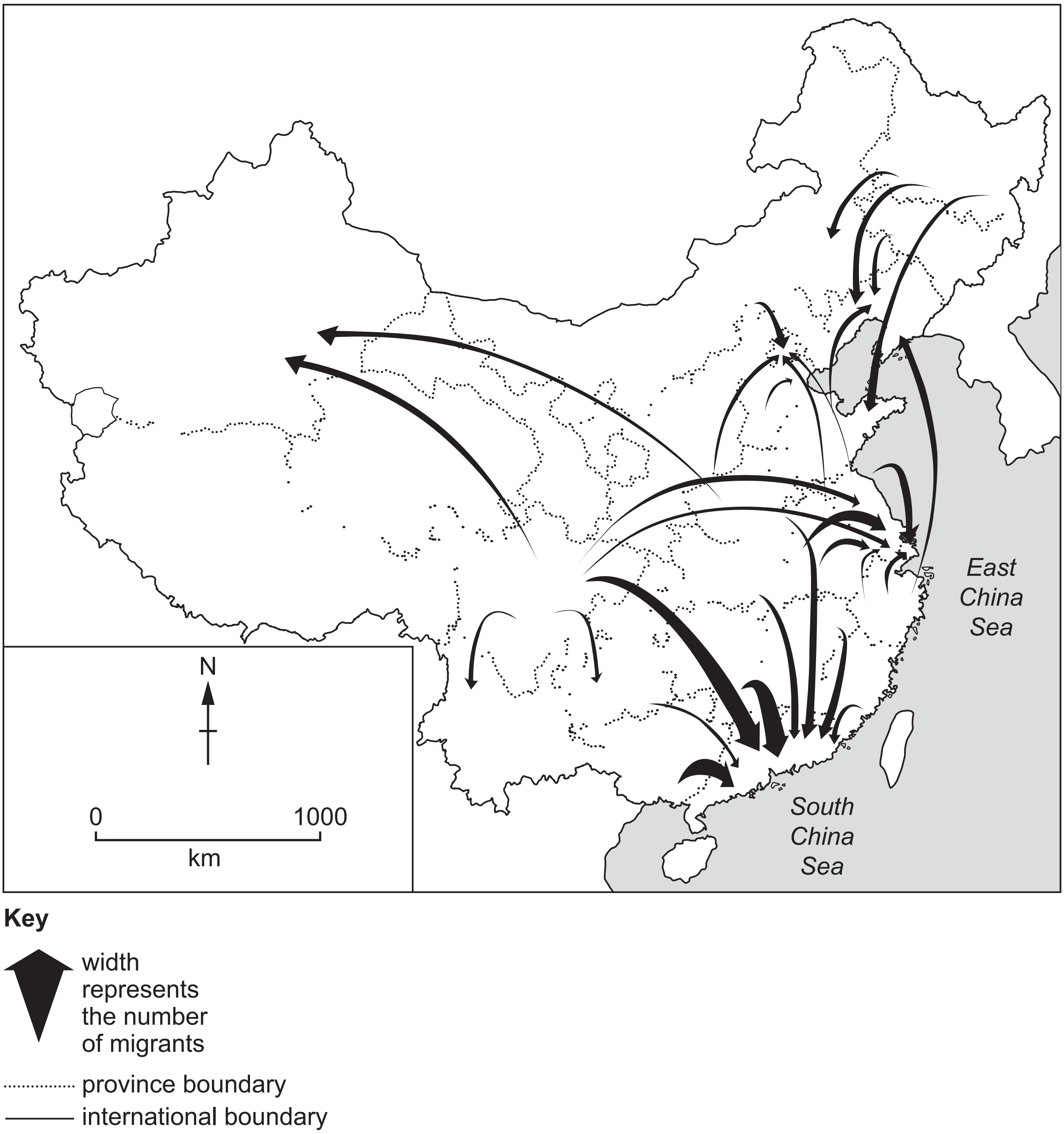

Fig. 2.1

Describe the migration of people shown in Fig. 2.1.

....

....

....

....

....

.... [3]

(b) Study Fig. 2.2, a diagram which shows some reasons for rural to urban migration.

Add **three** different push factors to Fig. 2.2.

- shortage of water
- lack of job opportunities
- undeveloped transport

1 ....

2 ....

3 ....

- clean piped water
- a choice of well-paid jobs
- access to public transport

Fig. 2.2

[3]

(c) Suggest why some people who live in rural areas might find it difficult to move to urban areas.

....

....

....

.... [2]

[Total: 8]

3 **(a)** Study Fig. 3.1, a storm hydrograph for a drainage basin.

Content removed due to copyright restrictions.

Fig. 3.1

(i) How many hours after the start of the rainfall will flooding begin?

.... hrs [1]

(ii) Calculate the time between the peak rainfall and peak discharge.

.... hrs [1]

(b) Table 3.1 is a list of drainage basin characteristics. Tick (✓) **four** boxes to show which characteristics are most likely to lead to flooding during a heavy rainstorm.

Table 3.1

characteristic	tick (✓)
circular shape	
long and thin shape	
gentle sides	
steep sides	
sparse vegetation	
covered in vegetation	
rural	
urbanised	

[2]

(c) Study Fig. 3.2 (Insert), which shows river flooding in Kalimantan, Indonesia (an LEDC).

Using Fig. 3.2, describe the impact of flooding on local communities.

....

....

....

....

....

....

....

.... [4]

[Total: 8]

4 **(a)** Study Fig. 4.1 (Insert), a cartoon about energy production.

Suggest **two** messages that the cartoon is saying about energy production.

message 1 ....

....

message 2 ....

.... [2]

(b) Study Fig. 4.2 (Insert), showing sources of India's energy production in 2020 and projected energy production for 2030.

(i) What is the total percentage produced by renewable energy sources in 2020?

.... % [1]

(ii) State how the percentage of **one** source of renewable energy is predicted to change from 2020 to 2030.

....

.... [1]

(c) Study Fig. 4.3 (Insert), showing a site used for solar power production in Thailand.

(i) Describe the site and its layout.

....

....

....

....

....

.... [3]

(ii) Using Fig. 4.3, suggest **one** disadvantage of using this site for solar power production.

....

.... [1]

[Total: 8]

5 **(a)** Study Fig. 5.1, showing the structure of a tropical rainforest.

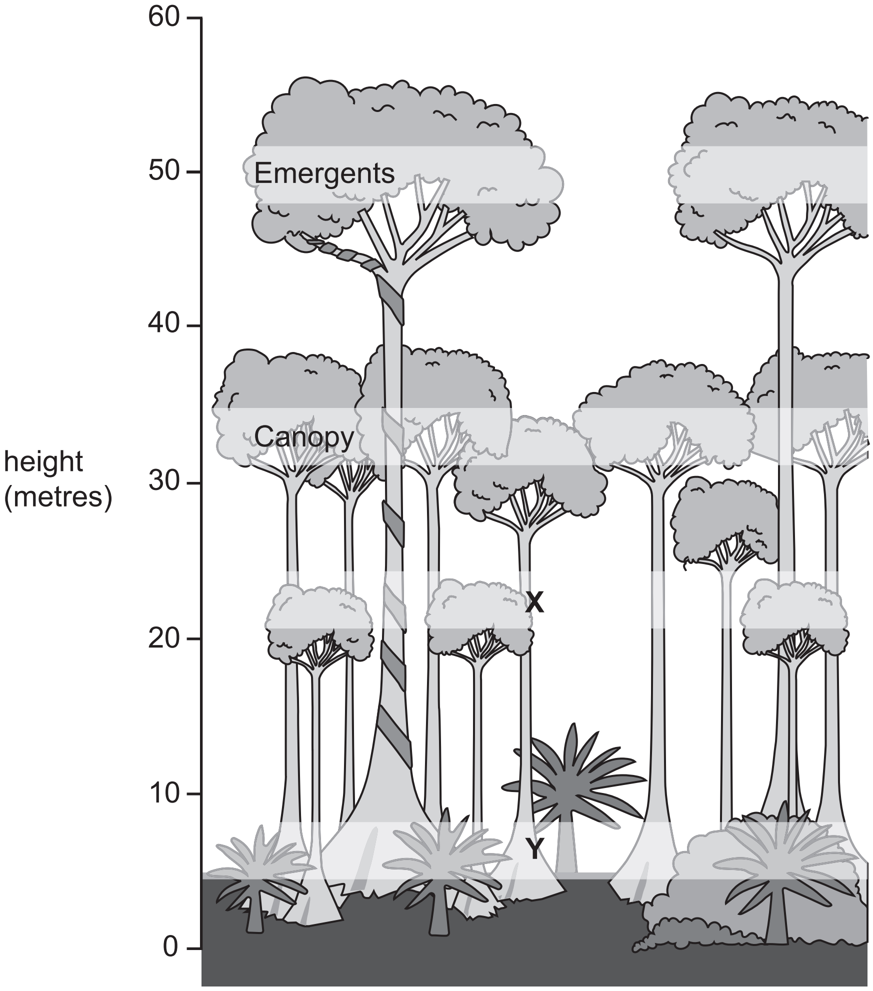

Fig. 5.1

(i) Name layers **X** and **Y**.

X ....

Y ....

[2]

(ii) Using Fig. 5.1, state the maximum height of the emergent layer and the height range of the canopy layer.

maximum height of the emergent layer .... m

height range of the canopy layer from .... m to .... m

[2]

(b) Study Fig. 5.2 (Insert), showing the distribution of tropical rainforests, areas of deforestation and the main causes of deforestation.

(i) Which continent has the largest area of tropical rainforest?

.... [1]

(ii) State the main cause of deforestation in each of the three continents.

South America ....

Africa ....

Asia ....

[3]

[Total: 8]

6 **(a)** Study Fig. 6.1 (Insert), showing the distribution of squatter settlements in Cairo, Egypt.

Describe the distribution of squatter settlements.

....

....

....

....

....

.... [3]

(b) Study Figs. 6.2 and 6.3 (Insert), showing two squatter settlements.

Suggest reasons why people who live in the squatter settlement in Fig. 6.2 might have a better quality of life than those who live in the squatter settlement in Fig. 6.3.

....

....

....

....

....

....

....

....

....

.... [5]

[Total: 8]

Additional pages

If you use the following pages to complete the answer to any question, the question number must be clearly shown.

BLANK PAGE
