



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate Examination Geography

Part One and Answerbook

Higher Level

2 hours 50 minutes

400 marks

Examination Number

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Day and Month of Birth

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For example, 3rd February
is entered as 0302

Centre Stamp



Instructions

Write your Examination Number and your Day and Month of Birth in the boxes on the front cover.

Write your answers to all parts of the examination into this answerbook. This answerbook will be scanned and your work will be presented to an examiner on screen. Anything that you write outside of the answer areas may not be seen by the examiner.

Write your answers in blue or black pen. You may use pencil for sketches, graphs and diagrams only.

There are two parts to this examination. Questions for **PART TWO** are supplied separately but your answers must be written in this answerbook.

PART ONE Short-Answer Questions **80 marks**
Attempt any **TEN** questions.
All questions carry equal marks.

PART TWO Structured and Essay Questions **320 marks**

You must attempt **four** questions. This must include one question from three of the sections below:

- Section 1 – **Patterns and Processes in the Physical Environment** (Questions 1-3)
- Section 2 – **Regional Geography** (Questions 4-6)
- Section 3 – **Electives** (Questions 7-12)
- Section 4 – **Options** (Questions 13-24)

The fourth question can be from any section.

All questions carry equal marks.

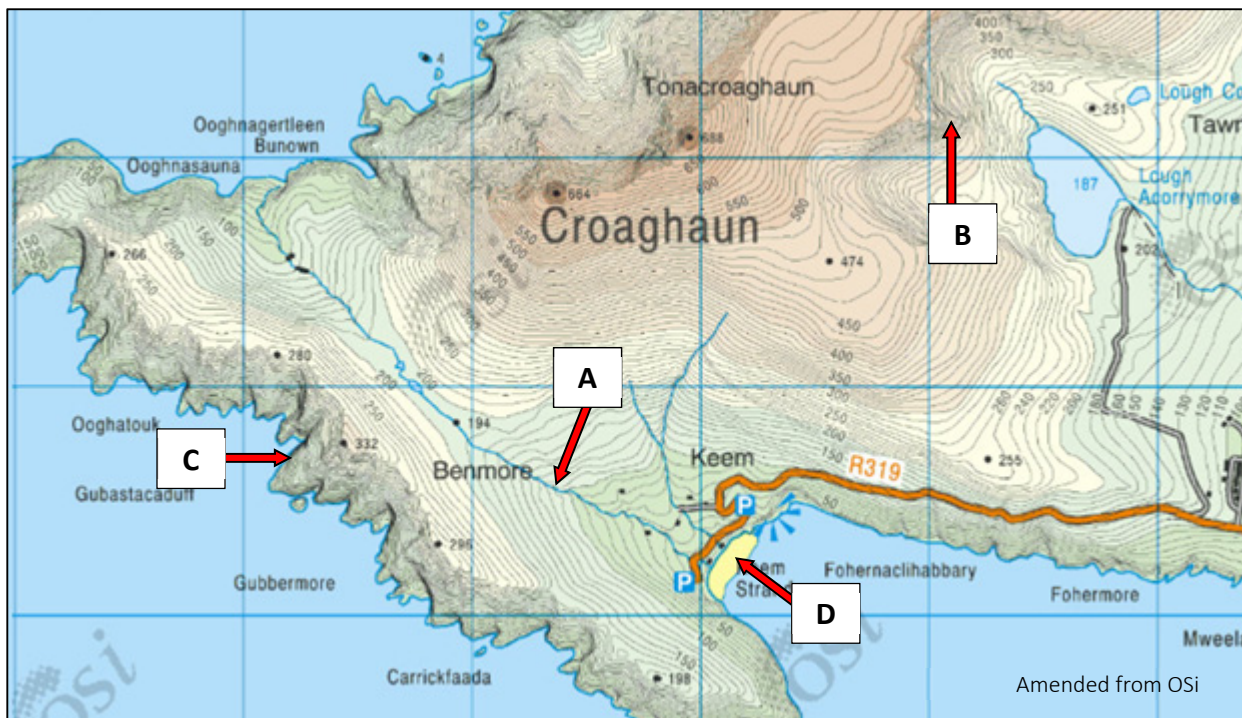
PART ONE – SHORT-ANSWER QUESTIONS – 80 MARKS

Attempt any **TEN** questions.

All questions carry equal marks.

THESE QUESTIONS ARE TO BE ANSWERED IN THE SPACES PROVIDED

1. Physical Processes



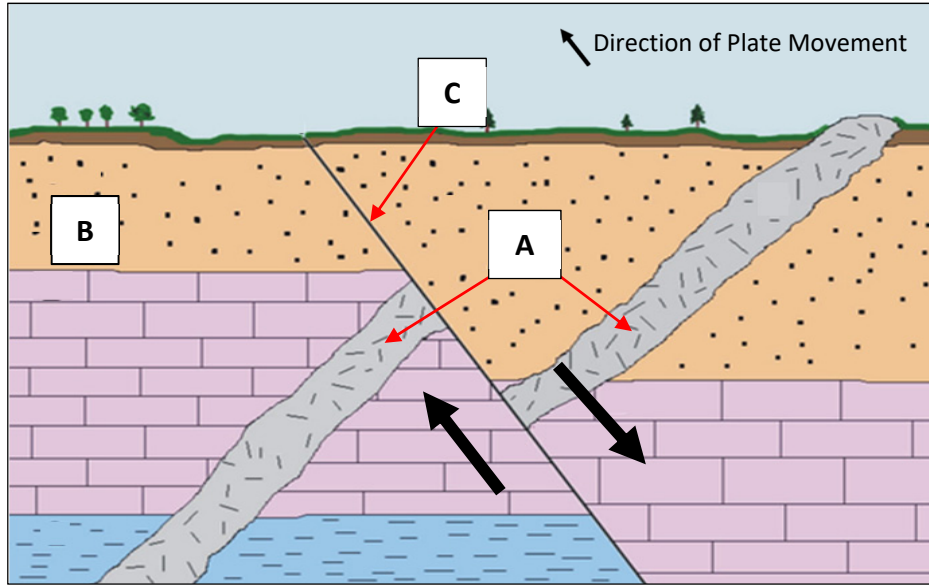
Examine the Ordnance Survey map extract above and answer each of the following questions.

- (i) Match each of the letters **A**, **B**, **C** and **D** with the landform that best matches it in the table below.
- (ii) Indicate, by ticking (✓) the correct box, whether the formation of each landform listed in the table is most associated with fluvial processes **or** coastal processes **or** glacial processes.

Q.1 (i)	Landform	Q.1 (ii)		
Letter		Fluvial (✓)	Coastal (✓)	Glacial (✓)
	V-shaped valley			
	Sea cliff			
	Beach			
	Arête			

[8m]

2. Rocks and Deformation



Amended from www.coursehero.com

Examine the diagram above which shows a cross section in the earth’s crust that has a fault line and answer each of the following questions.

- (i) Match each of the letters **A**, **B** and **C** with the feature that best matches it in the table below.

Feature	Letter
Fault line	
Volcanic intrusion	
Youngest layer of rock	

- (ii) Indicate whether the following statement is true or false, by ticking (✓) the correct box.

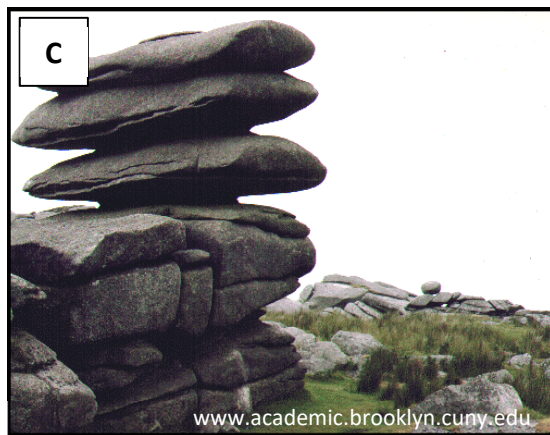
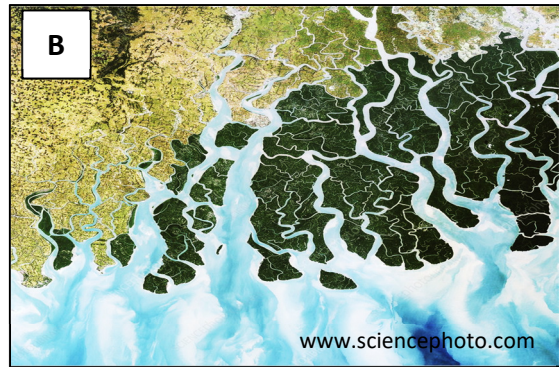
The fault line in the diagram above is an example of a *normal* fault.

True

False

[8m]

3. The Physical Environment



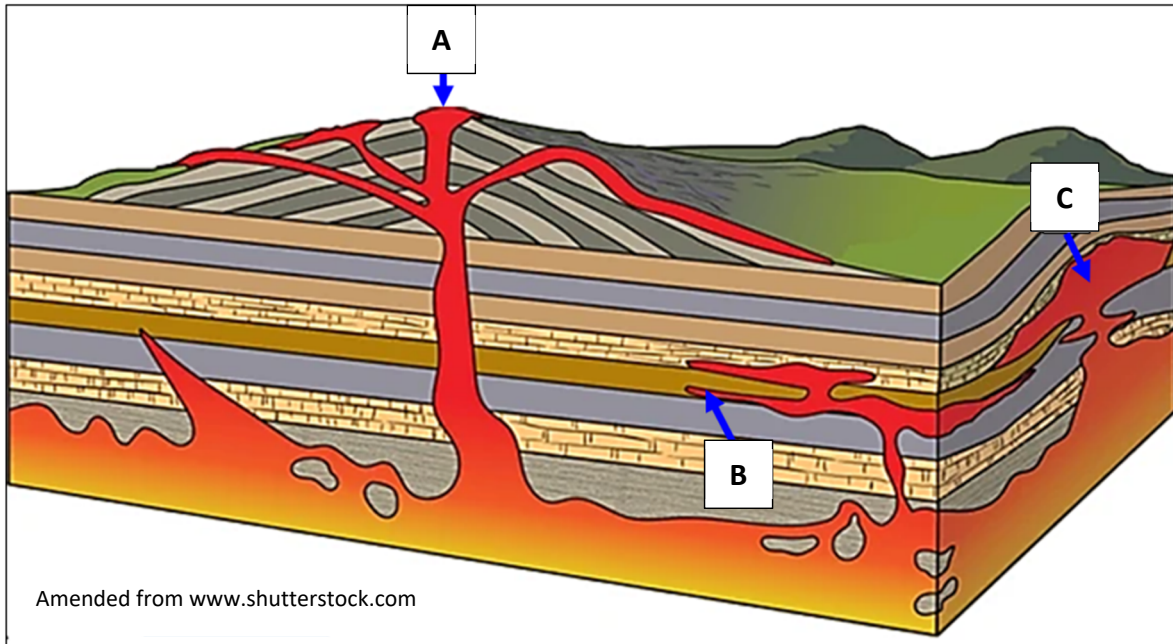
Examine the photographs above and answer each of the following questions.

- (i) Match each of the photographs **A, B, C** and **D** with the feature/process that best matches it in the table below.
- (ii) Indicate, by ticking (✓) the correct box, whether each feature/process in the table below is most associated with erosion **or** deposition **or** weathering.

Q.3 (i)		Q.3 (ii)		
Letter	Feature/Process	Erosion (✓)	Deposition (✓)	Weathering (✓)
	Hydraulic action			
	Delta			
	Tor formation			
	Corrie/Cirque			

[8m]

4. Volcanic Activity



Examine the diagram above showing a cross section of a volcano and answer each of the following questions.

- (i) Match each of the locations **A**, **B** and **C** on the diagram above with the landform most associated with this location in the table below.
- (ii) Indicate, by ticking (✓) the correct box, whether each landform from the table below is an example of an intrusive **or** extrusive landform.

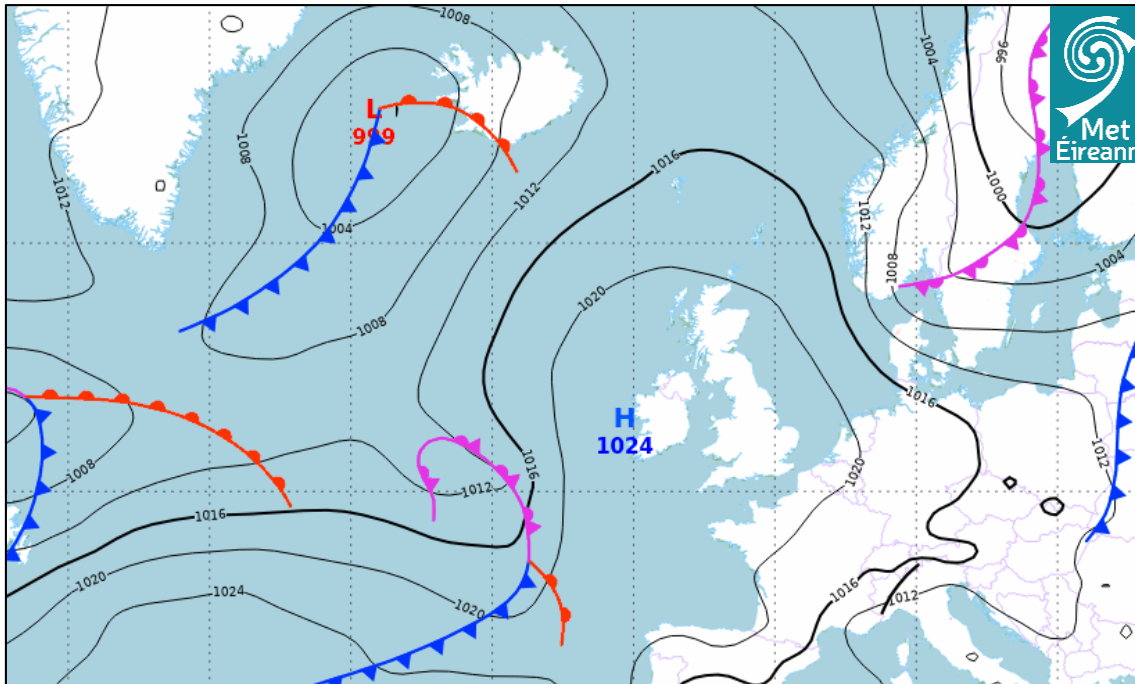
Q.4 (i)		Q.4 (ii)	
Location	Landform	Intrusive (✓)	Extrusive (✓)
	Sill		
	Batholith		
	Crater		

- (iii) Name the igneous rock type most associated with each of the following labels on the diagram above.

A:
B:

[8m]

5. Weather



Examine the weather chart above from Met Éireann and answer each of the following questions.

- (i) Which of the following type of front can be seen over Ireland?
Tick (✓) the correct box.

- Warm front
Cold front
Occluded front

- (ii) What is the barometric pressure (in hectopascals/millibars) at the centre of the anticyclone over the south west of Ireland?

- (iii) Which of the descriptions below best describe weather conditions over Ireland?
Tick (✓) the correct box.

- Continuous light or heavy rain
Calm and dry weather
Showers with strong winds

- (iv) What is the term used to describe the wind that blows most frequently over an area?

[8m]

6. Ordnance Survey Map

Examine the 1:50 000 Ordnance Survey map and legend accompanying this paper and answer each of the following questions.

- (i) What is the height, in metres, at the triangulation pillar at R 055 257?

- (ii) Give a six-figure grid reference for the confluence of the River Feale and Smearlagh River.

- (iii) Measure the distance, in kilometres, along the R523 from where it enters the map at R 060 337 to where it meets the N69 at R 016 340.

- (iv) Name the type of slope that is found from Q 992 327 to Q 992 319 (Slievecahill).

[8m]

7. Aerial Photograph and Ordnance Survey Map

Examine the aerial photograph of Listowel and the 1:50 000 Ordnance Survey map and legend accompanying this paper and answer each of the following questions.

- (i) Indicate whether the following statement is true or false by ticking (✓) the correct box.

The main land-use in the centre background is recreational.

True False

- (ii) Name the road that enters the aerial photograph in the left foreground.

- (iii) Which of the following type of bridge can be seen in the right background of the aerial photograph? Tick (✓) the correct box.

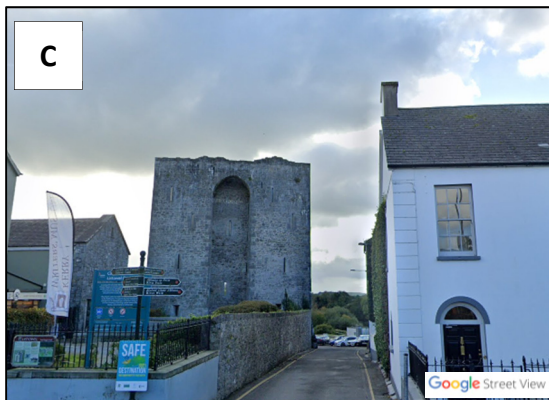
Railway bridge Road bridge Footbridge

- (iv) In what direction was the camera pointed when the aerial photograph was taken?

[8m]

8. Aerial Photograph

Examine the aerial photograph of Listowel accompanying this paper and the Google Street View images below from the same area of Listowel.



Using accepted notation, give the location on the aerial photograph of each of the areas shown in the Google Street View images **A**, **B**, **C** and **D** in the table below.

Google Street View Images	Location on the Aerial Photograph
A	
B	
C	
D	

[8m]

9. Regions

- (i) Complete the table, by matching each of the examples of regions in the list below, with the type of region most associated with it.

Examples of Regions:

Naples

The Islamic World

The Gaeltacht

Fingal County Council

The Burren

Cool Temperate Oceanic

Type of Region	Example of Region
Geomorphological	
Urban	
Climate	
Administrative	
Cultural (Language)	
Cultural (Religion)	

- (ii) Indicate whether each of the following statements is true or false by ticking (✓) the correct box.

- (a) Core regions experience net emigration.

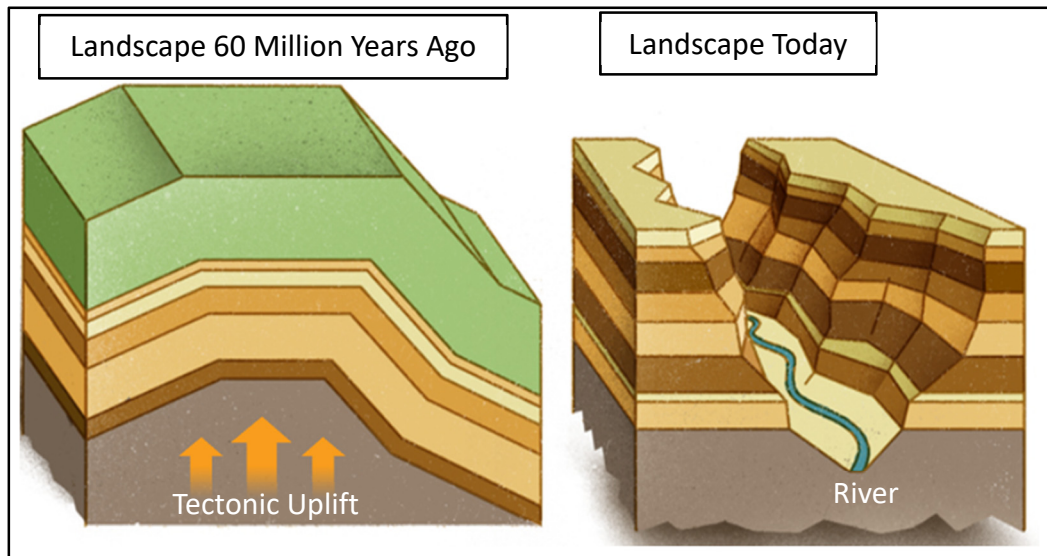
True False

- (b) High unemployment and abandoned factories are associated with regions of industrial decline.

True False

[8m]

10. Fluvial Adjustment



Amended from www.knowablemagazine.org

Examine the diagrams above, which show how a landscape can change after tectonic uplift, and answer each of the following questions by ticking (✓) the correct box.

- (i) Which of the following processes did the river use to erode the landscape shown above?

Vertical erosion

Headward erosion

- (ii) Which of the following is the name for a flat landscape formed from tectonic uplift?

Penplain

Plateau

- (iii) What is a rivers response to tectonic uplift called?

Rejuvenation

Subduction

- (iv) Which of the following is a feature formed as a result of a change in a river's base level?

Incised meander

Delta

[8m]

11. Statistical Interpretation

Percentage of People Employed in Each Sector of Economy in Selected European Countries and the EU-27 in 2020

Country	Agriculture	Industry	Services
EU-27*	5	23	72
Bulgaria	17	25	58
France	3	17	80
Ireland	5	19	76
Norway	2	20	78
Poland	10	31	59
Romania	21	30	49

*EU-27 European Union member states

Amended from Eurostat

Examine the table above which shows information on employment in different sectors of the economy in selected European countries in 2020 and answer each of the following questions.

- (i) Which country had the lowest percentage of people employed in Agriculture?

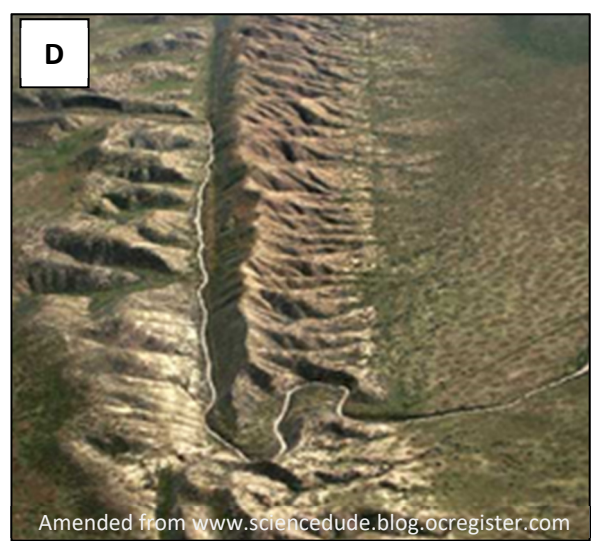
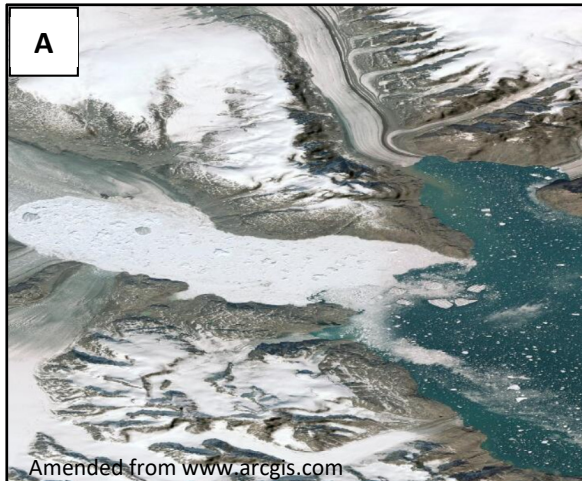
- (ii) In how many countries was the percentage of people employed in Industry greater than the EU-27?

- (iii) Calculate the difference between the percentage (%) of people employed in Services in Bulgaria and the EU-27.

- (iv) Name the country listed in the table which is not a member of the EU-27.

[8m]

12. Satellite Image Interpretation



Examine the satellite images above. Match each of the letters **A**, **B**, **C** and **D** with the description that best matches it in the table below.

Description	Letter
San Andreas Fault	
Shanty town	
Rainforest deforestation	
Retreating glacier	

[8m]

Answerbook for PART TWO

Instructions

Questions for **PART TWO** are supplied separately.

Start each question on a new page. Write the question number in the box at the top of each page.

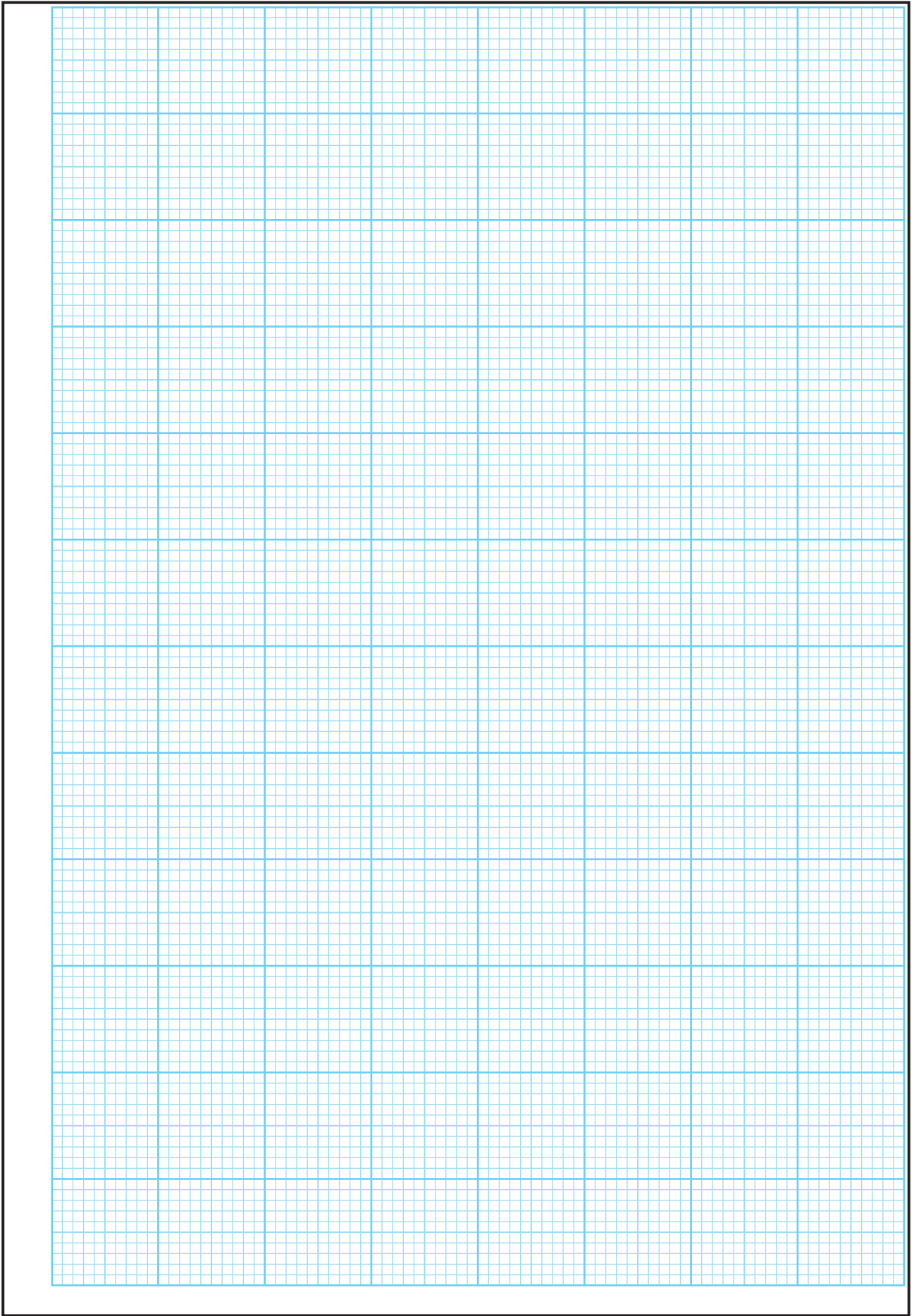
Use the left-hand column to label each part, as shown below.

	Question	<table border="1"><tr><td>0</td><td>4</td></tr></table>	0	4	Start each question on a new page
0	4				
Part					
(a)					
(b)(i)					
(b)(ii)					

Four pages of graph paper are provided on the next four pages of this answerbook. On pages with graph paper, the box for the question number is at the bottom of the page.

You do not need to use all of the pages in this answerbook. If you run out of space in this answerbook, you may ask the superintendent for more paper or graph paper.

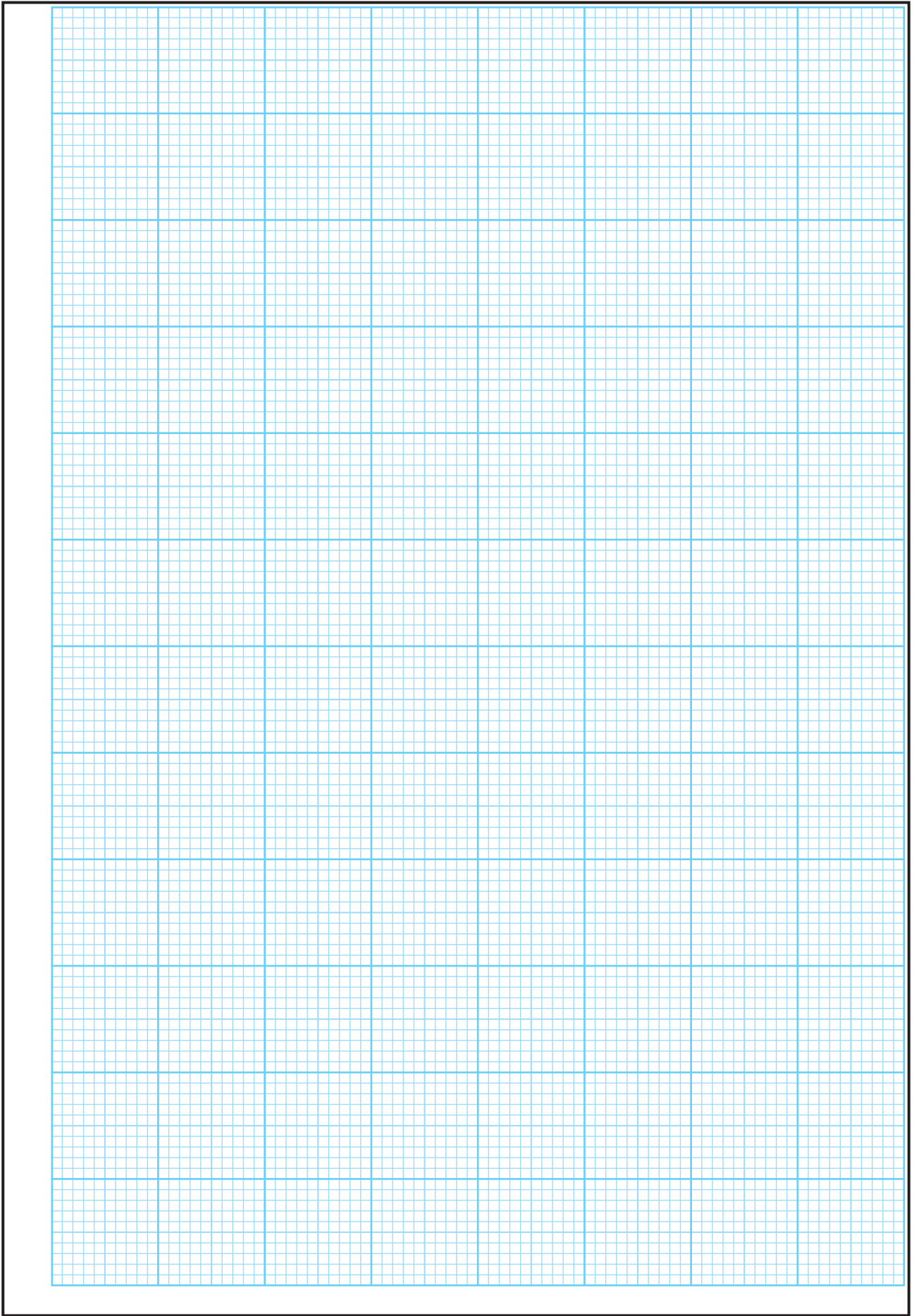
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Question

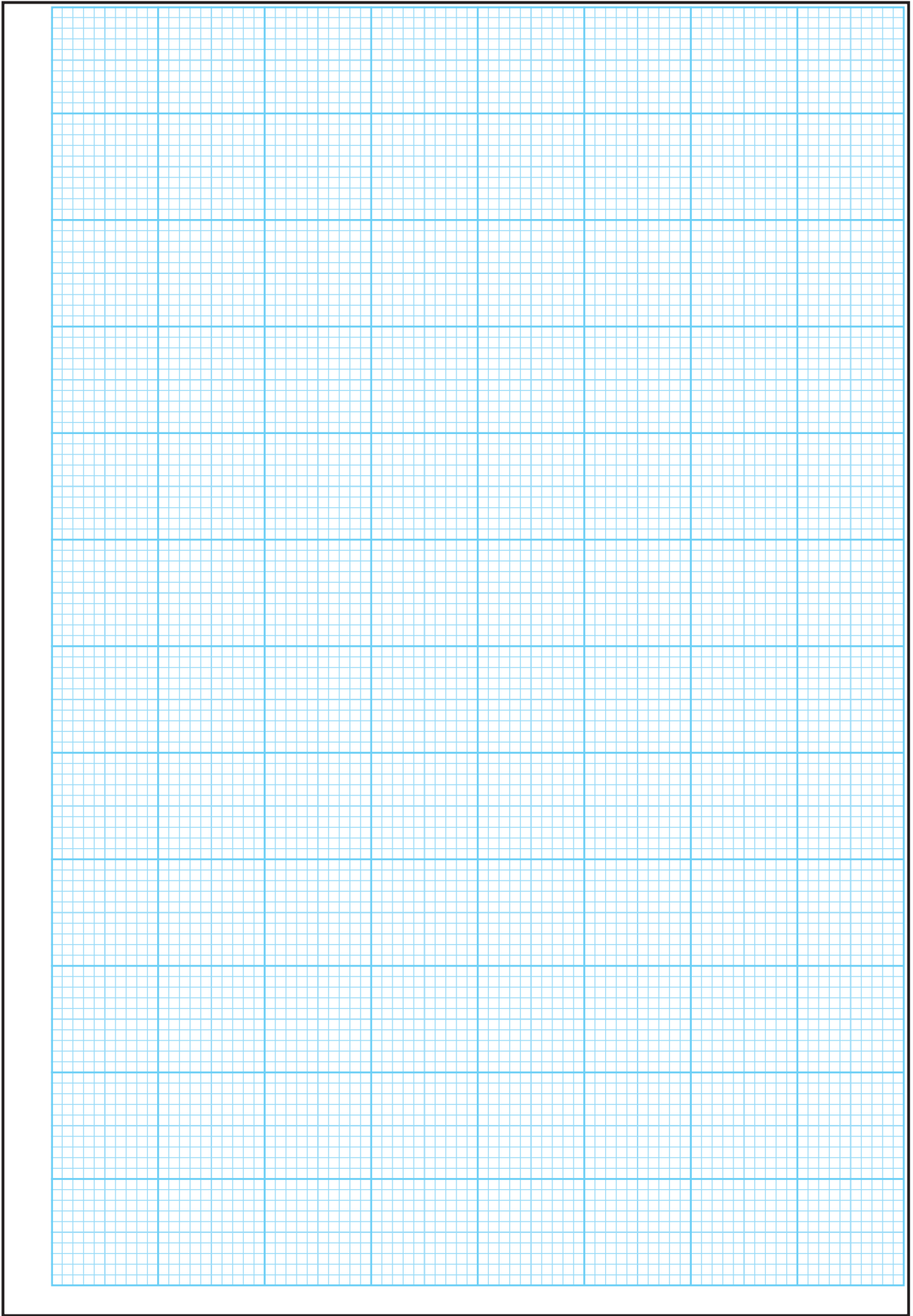


15

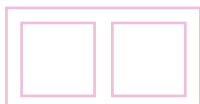


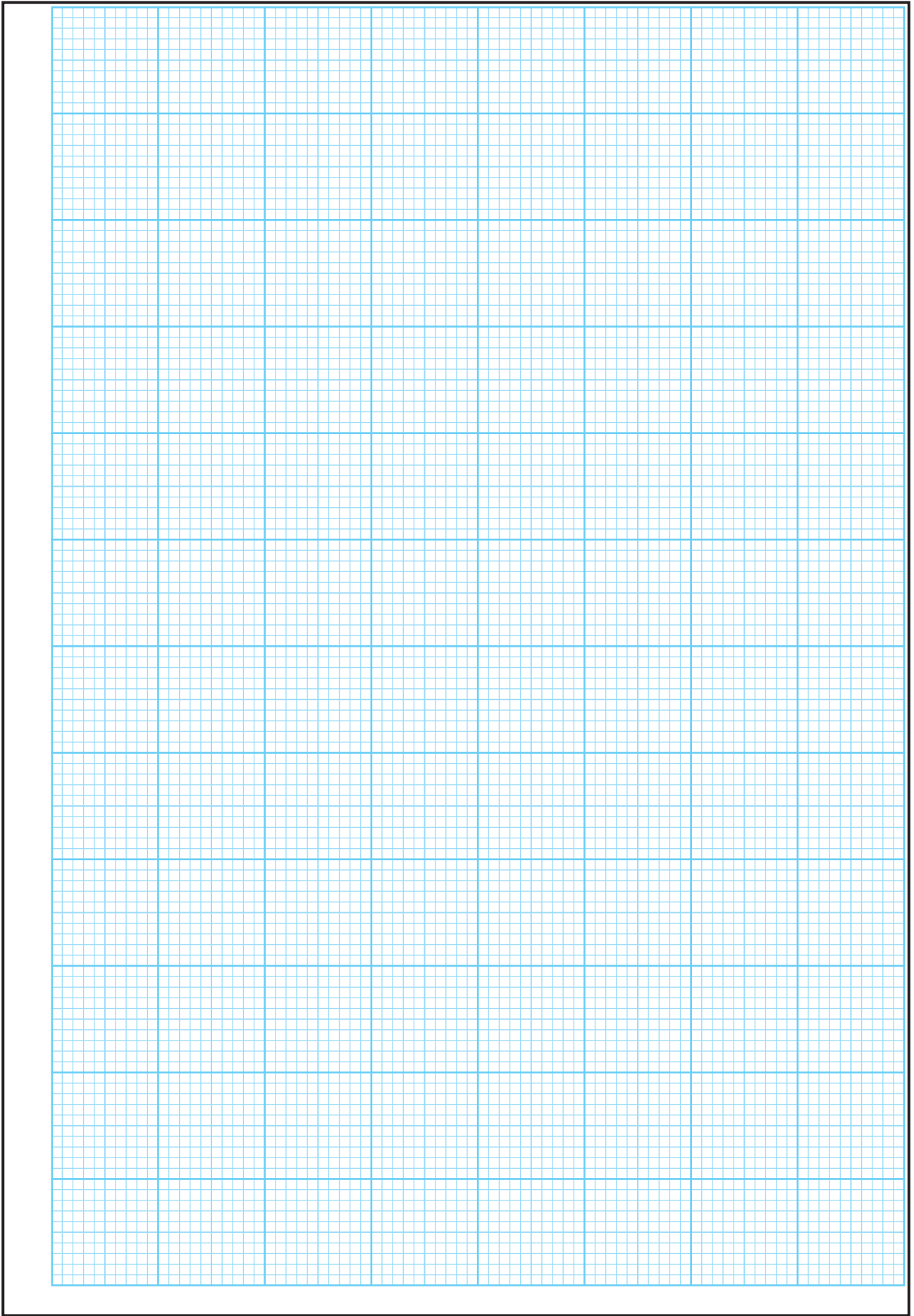
Question





Question





Question



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Leaving Certificate – Higher Level

Geography - Part One and Answerbook

2 hours 50 minutes