



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate Examination 2021

Geography

Part One and Answerbook

Ordinary Level

Friday 11 June Morning 9.30 – 12.20

300 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

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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.

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	100 marks
	Attempt any TEN questions.	
	All questions carry equal marks.	

PART TWO	Structured Questions	200 marks
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You must attempt **TWO** questions. Each question must be from a different section.

- 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)

All questions carry equal marks.

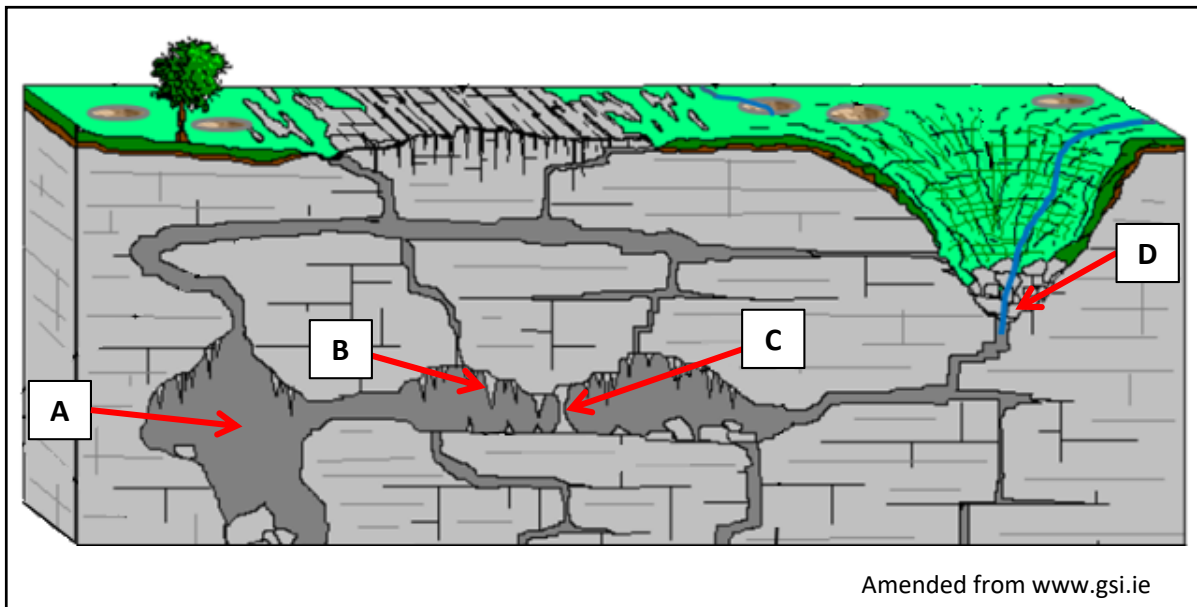
PART ONE – SHORT-ANSWER QUESTIONS – 100 MARKS

Attempt any **TEN** questions.

All questions carry equal marks.

THESE QUESTIONS ARE TO BE ANSWERED IN THE SPACES PROVIDED

1. Karst Landscape



Examine the diagram above which shows a karst landscape above and below the surface and answer each of the following questions.

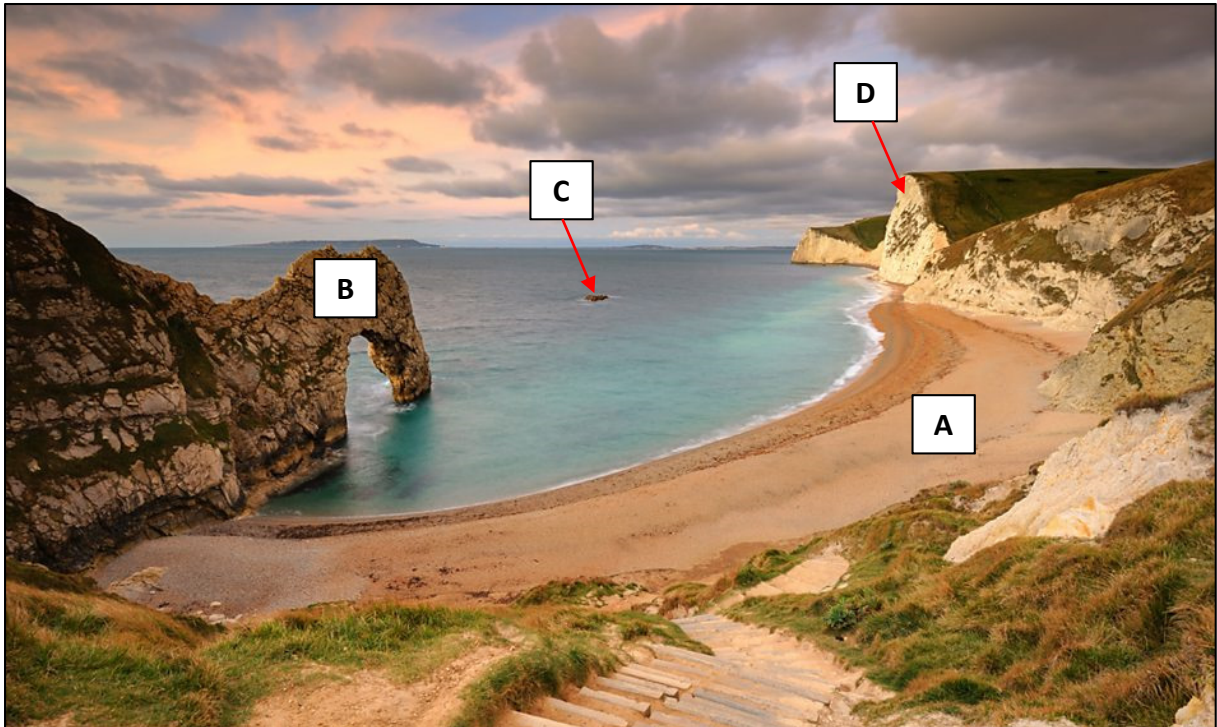
- (i) Match each of the letters **A**, **B**, **C** and **D** with the term in the table below most associated with it.

Term	Letter
Stalactite	
Swallow hole	
Cave/Cavern	
Pillar/Column	

- (ii) Name **one** location in Ireland that has a karst landscape.

[10m]

2. Coasts



Amended from www.bbcbitessize.co.uk

Examine the photograph above. Complete the table by answering each of the following questions. Some of the table has been completed for you.

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

Q.2 (i)	Feature	Q.2 (ii)	
		Processes of Erosion (✓)	Processes of Deposition (✓)
	Cliff	✓	
	Beach		
	Sea arch	✓	
C	Sea stump		

[10m]

3. Mass Movement



Amended from www.wikipedia.com

Examine the photographs above showing different types of mass movement. Complete the table by answering each of the following questions. Some of the table has been completed for you.

- (i) Match each of the photographs **A**, **B**, **C**, and **D** with the type of mass movement that best matches it in the table below.
- (ii) Indicate, by ticking the correct box, whether each type of mass movement listed in the table below is a fast or slow process.

Q.3 (i)		Q.3 (ii)	
Letter	Type of mass movement	Fast (✓)	Slow (✓)
	Rock fall	✓	
	Soil creep		
	Avalanche	✓	
B	Mud flow		

[10m]

4. Physical Processes

Match the physical process with the feature most associated with it, by writing the correct letter in each case, in the table below.

Letter	Physical Process
A	River deposition
B	Glacial deposition
C	Chemical weathering
D	River erosion
E	Coastal deposition

Feature	Letter
Drumlin	
Clint	
Spit	
Waterfall	
Levee	

[10m]

5. Regions

Match the **type of region** with the **example of the region** that best matches it, by writing the correct letter in each case, in the table below.

Letter	Type of Region
A	An administrative region in Ireland
B	An urban region
C	A cultural region defined by language
D	A climatic region
E	A geomorphological region

Example of Region	Letter
Paris	
Cool Temperate Oceanic	
Wallonia, Belgium	
Westmeath County Council	
Munster Ridge and Valley	

[10m]

6. Ordnance Survey Map

Examine the 1:50 000 Ordnance Survey map and legend accompanying this paper.

- (i) What is the total area of the map?

Tick (✓) the correct box.

99 km² ☐

108 km² ☐

- (ii) What is the length of the railway, from where it enters the map at G 252 090 to the railway station at G 255 043?

Tick (✓) the correct box.

3.5 km ☐

5.0 km ☐

[10m]

7. Ordnance Survey Map

Examine the 1:50 000 Ordnance Survey map and legend accompanying this paper.

- (i) Name the antiquity that can be found at each of the following grid references:

G 262 009:
G 301 033:
G 263 063:

- (ii) Indicate the type of woodland found at G 287 043, by ticking (✓) the correct box.

Coniferous plantation ☐

Deciduous woodland ☐

Mixed woodland ☐

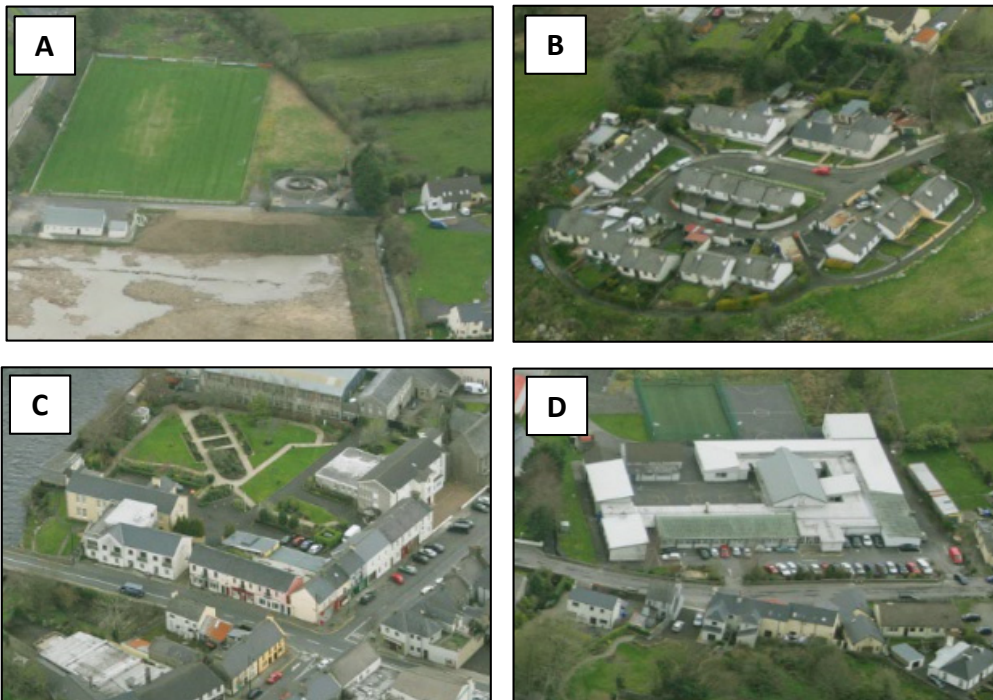
- (iii) Draw the Ordnance Survey map symbol for a viewpoint in the space below.



[10m]

8. Aerial Photograph

Examine the aerial photograph accompanying this paper, and the sections from it below, and answer each of the following questions.



- (i) Give the location of each of the sections from the aerial photograph, using accepted notation (right background, centre foreground, etc.).

A
B
C
D

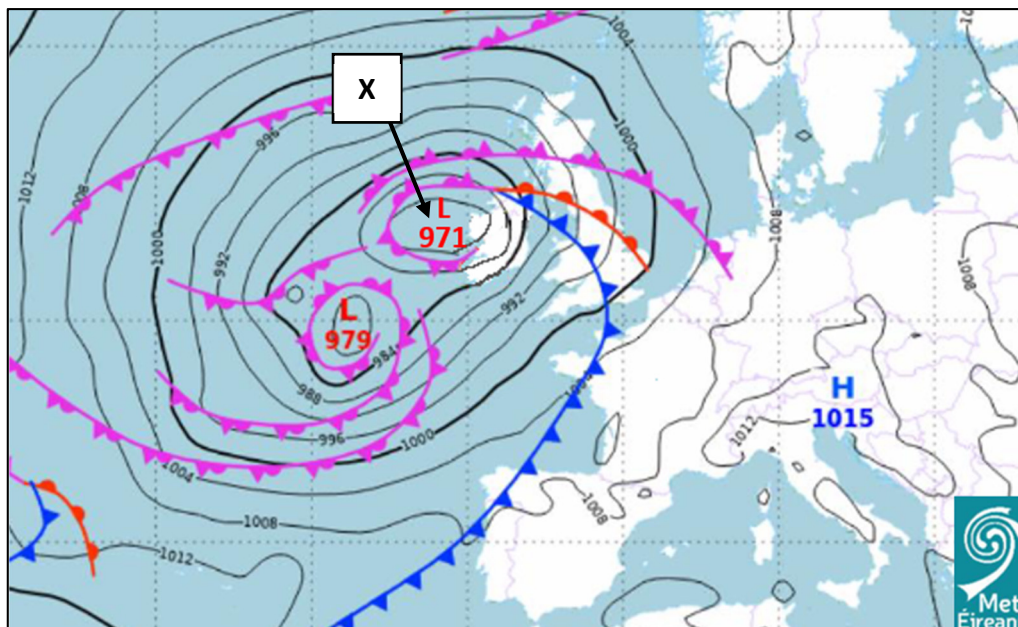
- (ii) Indicate whether the aerial photograph accompanying this paper is a vertical or an oblique aerial photograph, by ticking (✓) the correct box.

Vertical ☐

Oblique ☐

[10m]

9. Weather Charts



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

- (i) What is the barometric pressure (in hectopascals/millibars) at the centre of the area of low pressure marked **X**?

- (ii) Indicate whether the following statement is true or false by ticking (✓) the correct box.
Ireland and Italy are experiencing the same type of weather conditions.

True ☐

False ☐

- (iii) What does the letter **H** on the weather chart indicate?

- (iv) In the box below, draw the weather chart symbol for a cold front.

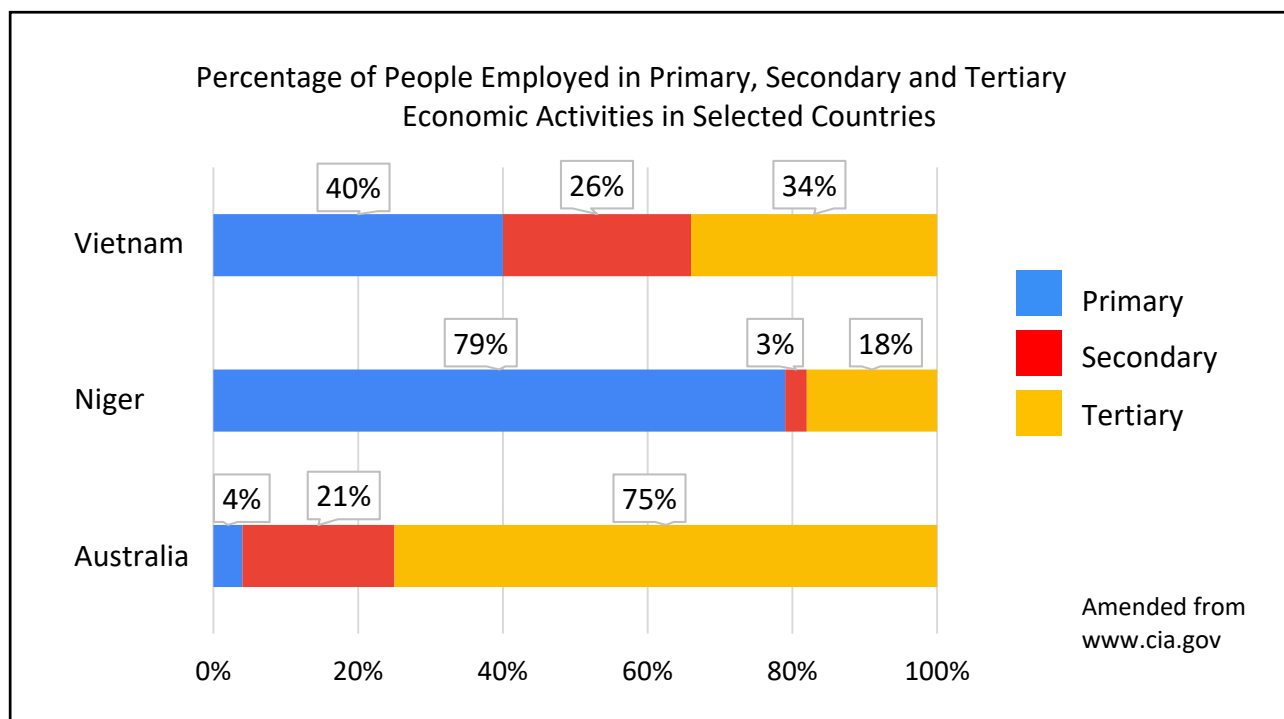
- (v) The black lines on this weather map join areas of equal barometric pressure.
Which of the following is the correct name for these lines? Tick (✓) the correct box.

Isobars ☐

Isotherms ☐

[10m]

10. Economic Activities



Examine the stacked bar chart above which shows the percentage of people employed in different economic activities in Vietnam, Niger and Australia and answer each of the following questions.

- (i) What percentage of people in Australia are employed in secondary economic activities?

- (ii) Which country has the highest percentage of people employed in primary economic activities?

- (iii) Calculate the difference between the percentage of people employed in tertiary economic activities in Australia and the percentage of people employed in tertiary economic activities in Vietnam.

- (iv) Indicate whether each of the following jobs is an example of a primary, secondary or tertiary economic activity by ticking (✓) the correct box.

Job	Primary (✓)	Secondary (✓)	Tertiary (✓)
Miner			
Teacher			

[10m]

11. Weather Statistics

Total monthly rainfall (in millimetres) for Belmullet and Ballyhaise Weather Stations in 2019

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Belmullet	93	120	151	85	58	87	101	161	105	117	139	150	1367
Ballyhaise	44	54	149	64	36	116	52	165	164	84	103	84	1115

Amended from www.met.ie

Examine the table above showing the total monthly rainfall for Belmullet and Ballyhaise weather stations in 2019 and answer each of the following questions.

- (i) What was the total monthly rainfall (in mm) for March 2019 at Ballyhaise weather station?

- (ii) In which month was rainfall the highest at Belmullet weather station in 2019?

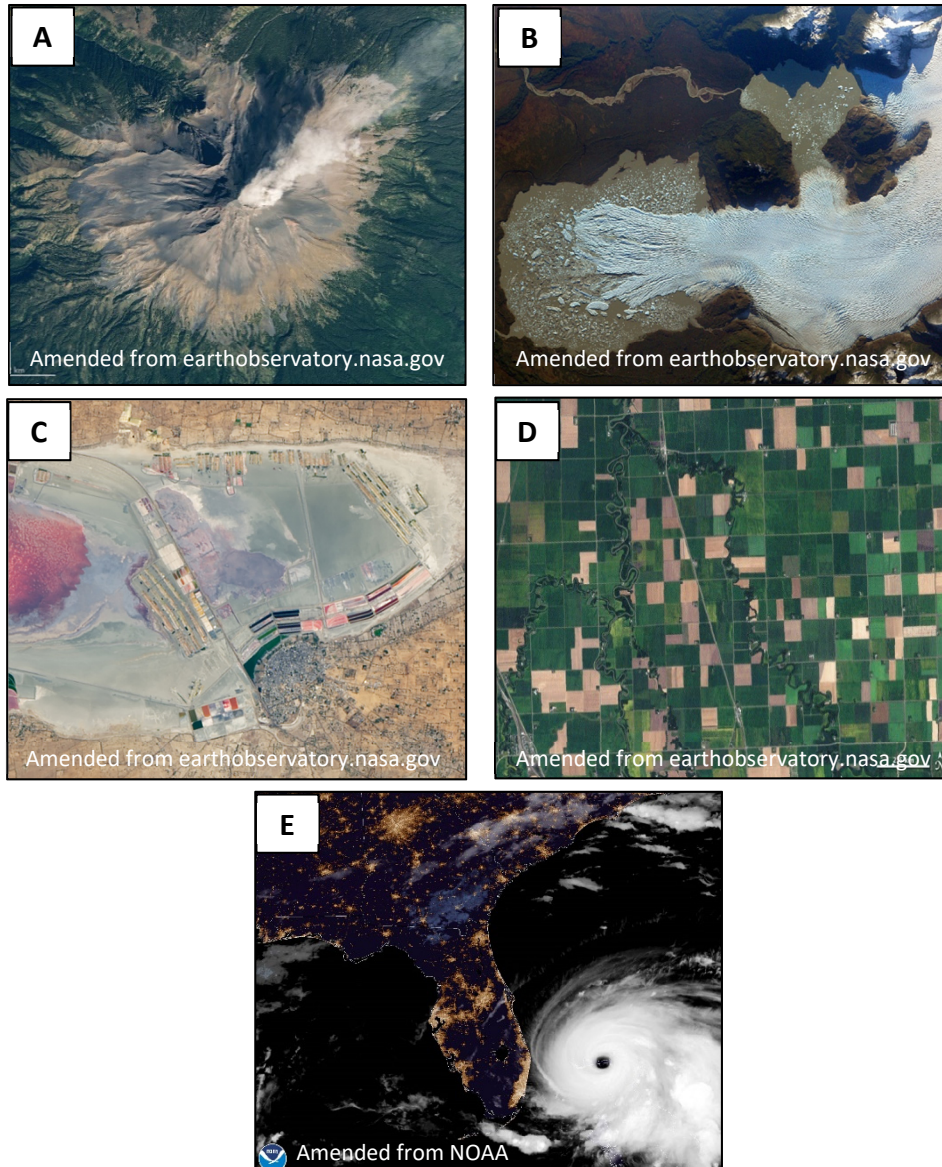
- (iii) At Ballyhaise weather station, how many months had a rainfall level of less than 60 mm?

- (iv) Which weather station had more rainfall in 2019?

- (v) Name the weather instrument used to measure rainfall.

[10m]

12. Satellite Interpretation



Match each satellite image, **A** to **E**, with the most suitable description, by writing the correct letter in each case in the table below.

Description	Letter
San Quentin Glacier, Chile	
Hurricane Dorian off the coast of Florida, USA	
Salt production in Thar Desert, India	
Crop farming in Minnesota, USA	
Popocatepetl Volcano Eruption, Mexico	

[10m]

Answerbook for PART TWO

Instructions

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

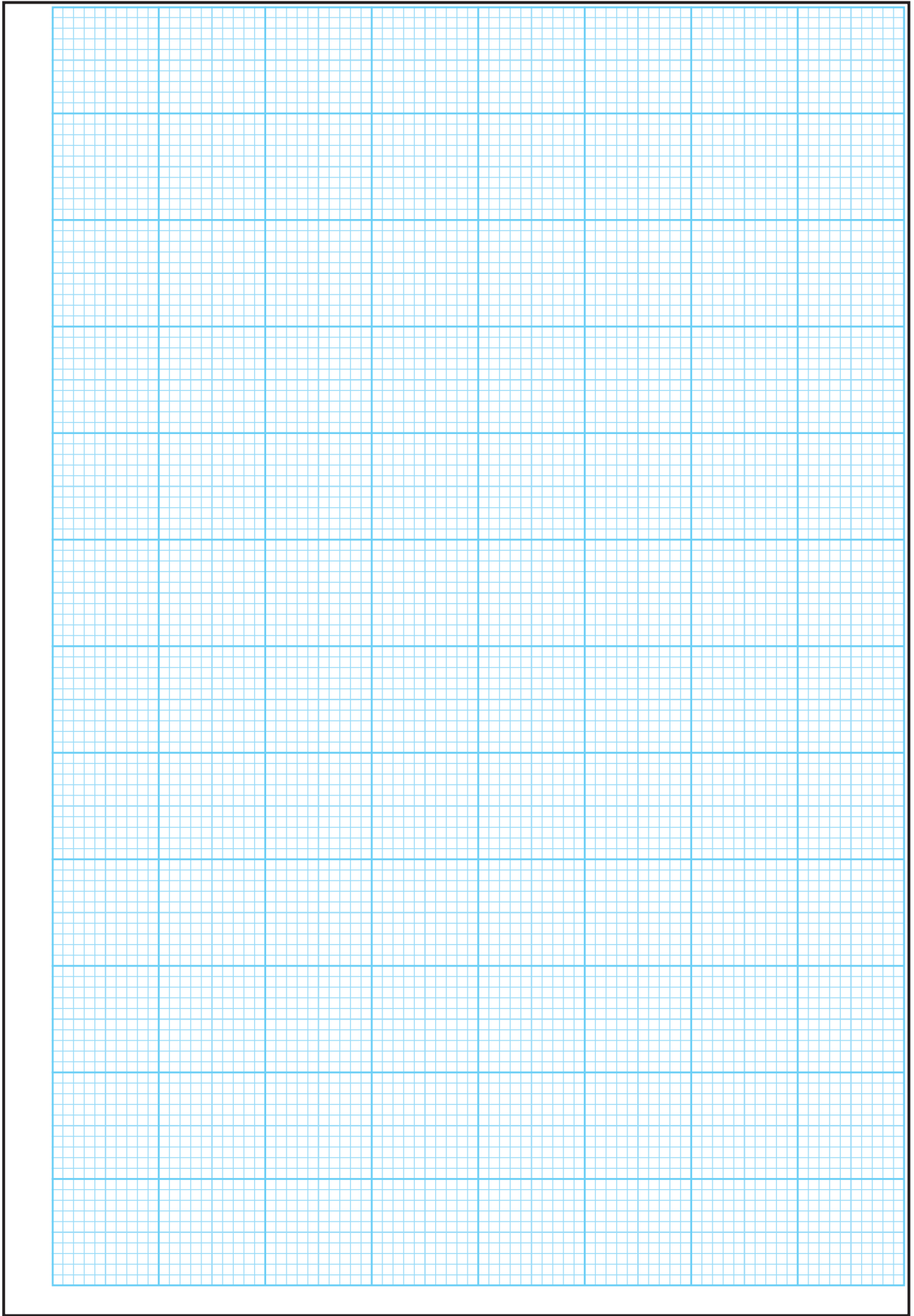
Start each question on a new page. Write the question number in the box at the top of each page. Use the left-hand column to label each part, as shown below.

Part <i>Cuid</i>	Question <i>Ceist</i>	
(a)		Start each question on a new page <i>Cuir tús le gach ceist ar leathanach nua</i>
(b)(i)		
(b)(ii)		

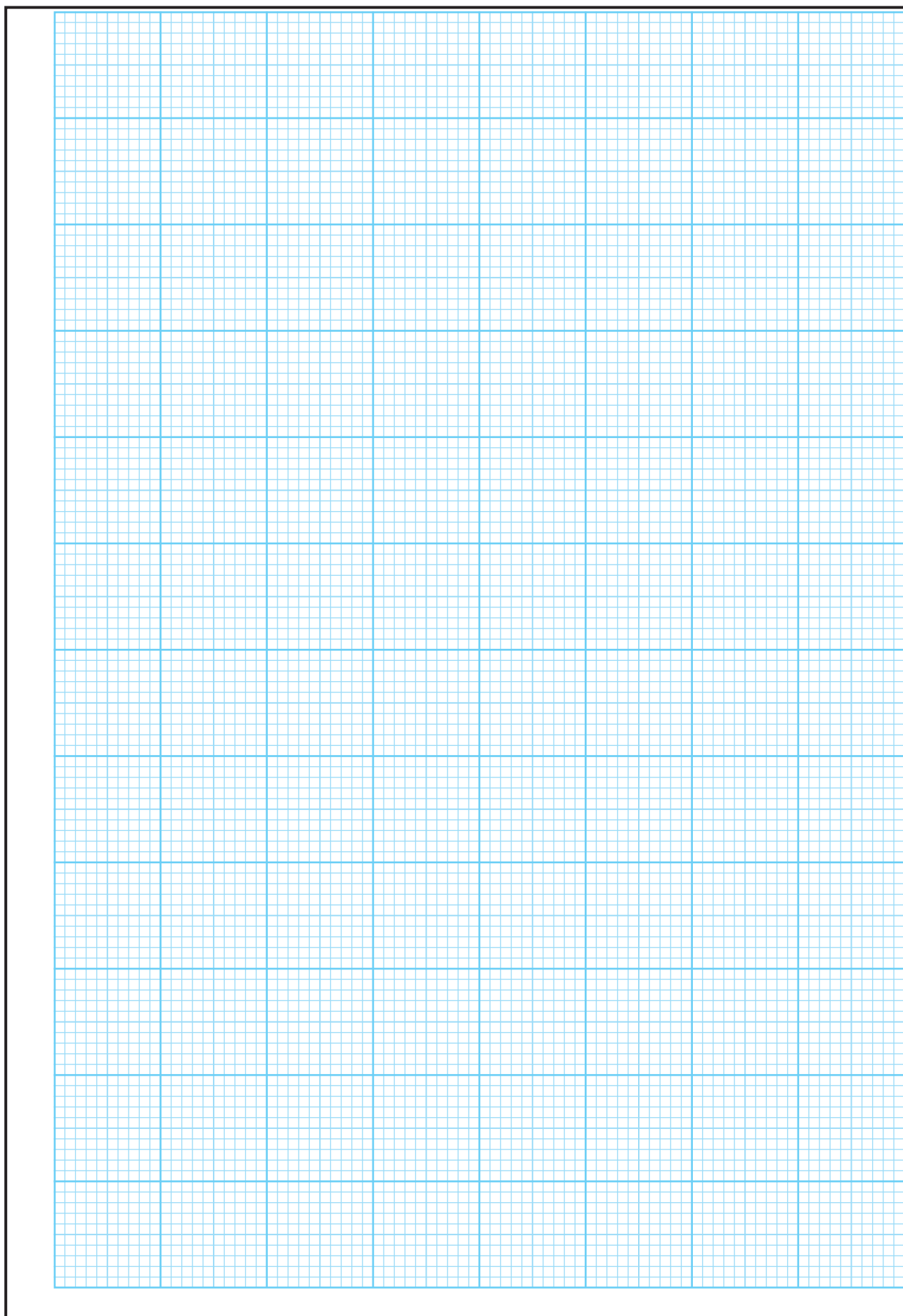
Four pages of graph paper are provided on the next four pages of this answerbook. On pages with graph paper, the box for the question number is at the bottom of the page.

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.

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

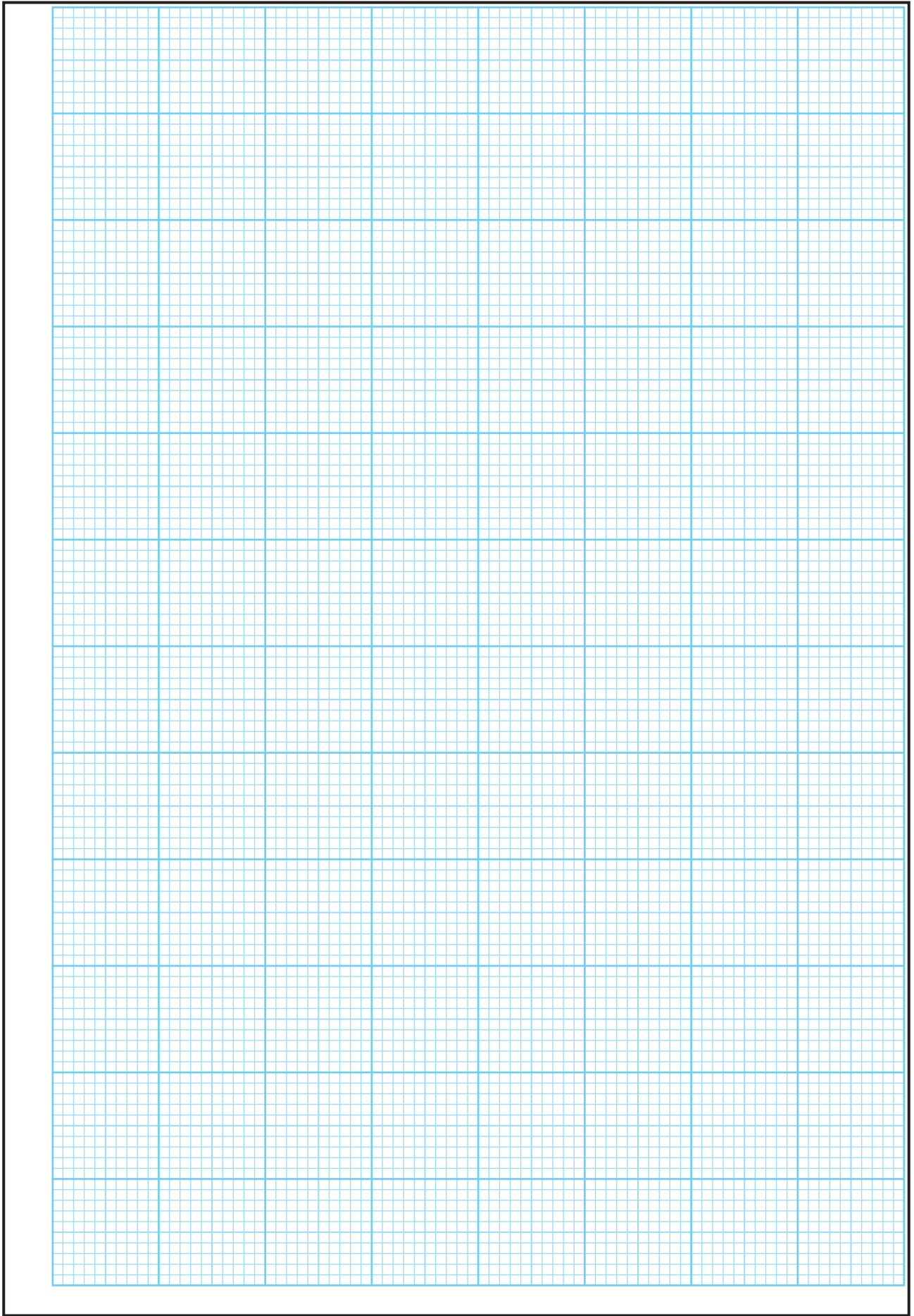


Question

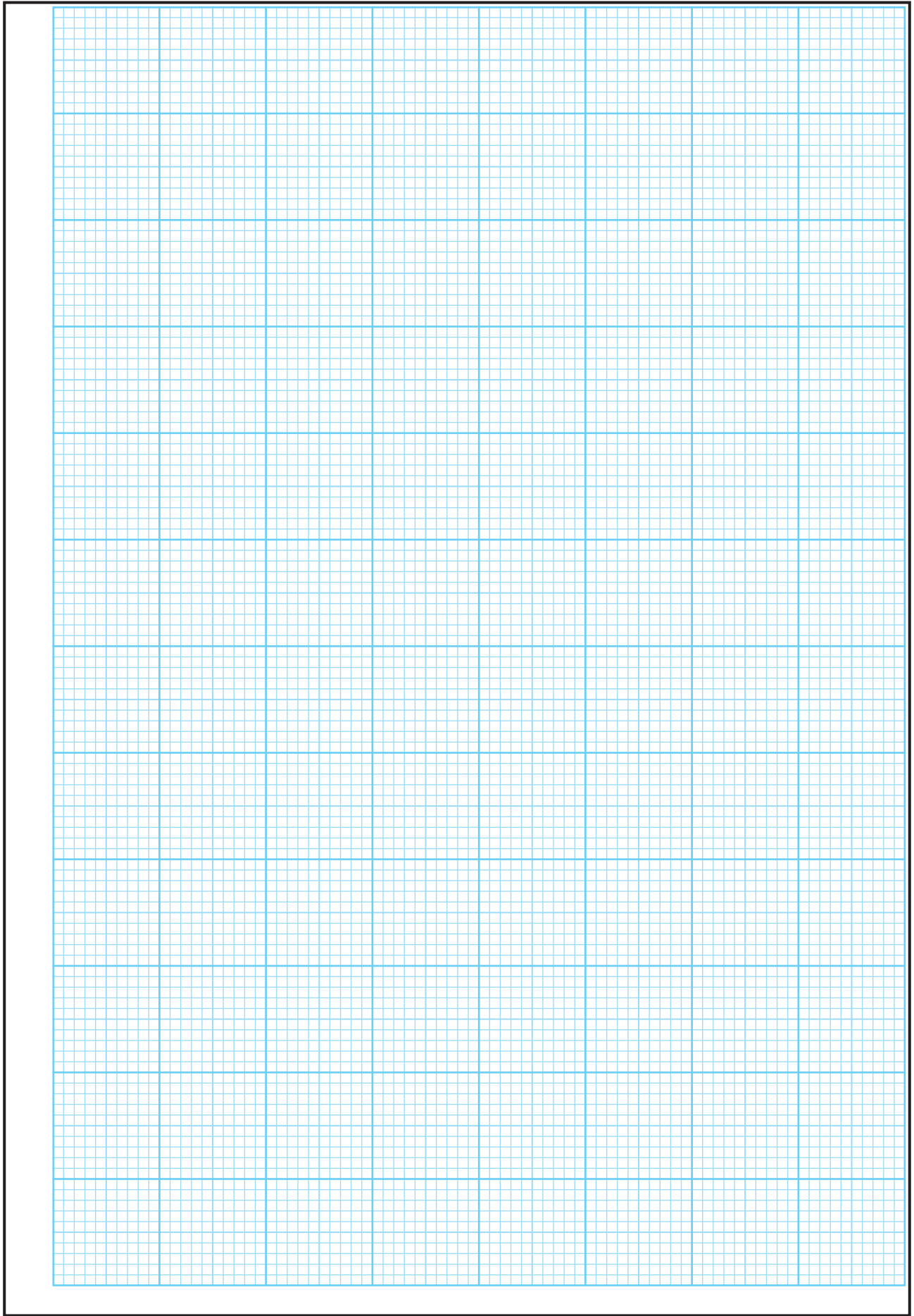


Question

15



Question



Question

Part

[illegible]

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Part

[illegible]

Part

[illegible]

Part

[illegible]

Part

[illegible]

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Part

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Part One	Total Mark	Adv. Ex.
Question 1		
Question 2		
Question 3		
Question 4		
Question 5		
Question 6		
Question 7		
Question 8		
Question 9		
Question 10		
Question 11		
Question 12		
Accumulated Marks		
Disallowed Marks		
Net Mark		

Question	Ex. Mark	Adv. Ex.
Total		
Grade		

1. Total of end of page totals	
2. Aggregate total of all disallowed question(s)	
3. Total mark awarded (1 minus 2)	
Note: The mark in row 3 must equal the mark in the total box on the script.	

Geography Part One and Answerbook

Friday 11 June
Morning 9.30 – 12.20