



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate 2012

Marking Scheme

Geography

Ordinary Level

In considering this marking scheme the following should be noted:

The detail required in any answer is determined by the context and the manner in which the question is asked and by the number of marks assigned to the answer in the examination paper. Requirements and mark allocations may therefore vary from year to year.

Geographical Investigation - Core Unit 3

1. Introduction
4 SRPs @ 1 mark each
Conformity with prescribed length - 1 mark
Total Marks 5

 2. Planning
4 SRPs @ 1 mark each
Conformity with prescribed length - 1 mark each
Total Marks 5

 3. Gathering of Data
Two Methods/Tasks @ 18m each
Each method/task - 9 SRPs @ 2m each (18 x 2) 36 marks
- | | |
|---|---------|
| Coherence - 2 marks graded
Conformity with prescribed length 2 marks | 4 marks |
|---|---------|
- Total Marks 40
4. Results, Conclusions, Evaluation
Three headings @ 8 marks each
Each heading: 4 SRPs @ 2 marks each
24 marks
- | | |
|---|---------|
| Coherence - 4 marks graded
Conformity with prescribed length 2 marks | 6 marks |
|---|---------|
- Total Marks 30
5. Organisation and Presentation of Results
10 SRPs @ 2 marks each
Total Marks 20

(Please refer to Appendix 1 for Topics List)

PART ONE – SHORT-ANSWER QUESTIONS – 100 MARKS

Attempt **TEN** questions

All Questions carry equal marks.

1. Volcanic Activity

- | | | | |
|------|---------------|---|---------|
| (i) | Lava Flow | A | 2 marks |
| | Ash Cloud | D | 2 marks |
| | Geyser | B | 2 marks |
| | Crater | C | 2 marks |
| (ii) | Named volcano | | 2 marks |

Total Marks 10

2. Economic Activities

- | | | |
|---------------|-----------|---------|
| Forestry | Primary | 2 marks |
| Tourism | Tertiary | 2 marks |
| Manufacturing | Secondary | 2 marks |
| Agriculture | Primary | 2 marks |
| Services | Tertiary | 2 marks |

Total Marks 10

3. Physical Processes

- | | | |
|--------------------|---|---------|
| Swash and backwash | D | 2 marks |
| Bog burst | C | 2 marks |
| Freeze-thaw | A | 2 marks |
| Solution | E | 2 marks |
| Abrasion | B | 2 marks |

Total Marks 10

4. Ordnance Survey Map

- | | | |
|------|-----------------|---------|
| (i) | 108 | 5 marks |
| (ii) | 7.5 (Range 7-8) | 5 marks |

Total Marks 10

5. Ordnance Survey Map

- | | | |
|------|------------------------------------|---------|
| (i) | Post Office | 2 marks |
| | Ringfort /Rath/Lios/Enclosure/Clós | 2 marks |
| | Crannóg | 2 marks |
| | Golf course | 2 marks |
| (ii) | Symbol drawn | 2 marks |

Total Marks 10

6. Aerial Photograph and Ordnance Survey Map

- (i) Correct Location 2 marks
- Correct Location 2 marks
- Correct Location 2 marks
- (ii) North East 2 marks
- (iii) River/Marina/holiday homes/
any valid evidence 2 marks

Total Marks 10

7. Physical Landforms

- Glacial deposition E 2 marks
- River erosion A 2 marks
- Marine erosion D 2 marks
- Marine deposition C 2 marks
- Glacial erosion B 2 marks

Total Marks 10

8. Satellite Images

- (i) A mine in the desert B 2 marks
- A major ferry port C 2 marks
- A railway and bus station D 2 marks
- An industrial estate A 2 marks
- (ii) Use named 2 marks

Total Marks 10

9. Irish Census

- (i) 4,252,000 2 marks
- (ii) 327,000 2 marks
- (iii) South-West 2 marks
- (iv) Mid-West 2 marks
- (v) Reason stated 2 marks

Total Marks 10

10. Weather Charts

- (i) Cold Front B 1 mark
- Warm Front A 1 mark
- (ii) H High 2 marks
- L Low 2 marks
- (iii) 987 2 marks
- (iv) Named climate 2 marks

Total Marks 10

11. Rocks

- | | | |
|-------|--------------------------|---------|
| (i) | Igneous | 2 marks |
| (ii) | True | 2 marks |
| (iii) | Giant's Causeway, Antrim | 2 marks |
| (iv) | False | 2 marks |
| (v) | Use stated | 2 marks |

Total Marks 10

12. Regions

- | | | |
|--------------------------------|---|---------|
| The Alps | E | 2 marks |
| Paris | A | 2 marks |
| Mediterranean | D | 2 marks |
| The South of Italy/Mezzogiorno | B | 2 marks |
| The Basque region of Spain | C | 2 marks |

Total Marks 10

PART TWO – STRUCTURED QUESTIONS – 300 MARKS

You must attempt **THREE** questions, as follows:

- **TWO** questions from **Section 1 – Core**:
 - **One** question from Questions 1, 2 and 3
 - AND**
 - **One** question from Questions 4, 5 and 6
- **ONE** question from **Section 2 - Electives**

THESE QUESTIONS ARE TO BE ANSWERED IN THE ANSWER BOOK

SECTION 1 – CORE

Questions 1 to 6

You **MUST** attempt **TWO** questions:

➤ **ONE** from **Patterns and Processes in the Physical Environment**

AND

➤ **ONE** from **Regional Geography**

PATTERNS AND PROCESSES IN THE PHYSICAL ENVIRONMENT

Questions 1 to 3

Attempt **ONE** question

Question 1

A. Ordnance Survey Map

Examine the 1:50000 Ordnance Survey map and legend accompanying this paper. Draw a sketch map of the area shown and on it **show** and **name** the following:

- The River Shannon
- An area of mixed woodland
- Oakport Lough
- The Jamestown Canal
- An area of land over 120 metres above sea level in the north-east of the map.

[30m]

A printing error in the legend of the Ordnance Survey map resulted in the omission of the forestry symbols which may have affected candidate answering. The marking scheme allows for this.

Sketch Map as follows

Limits/frame

1 marks

Proportions

2 marks graded

Overall impression

2 marks graded

For an obvious tracing allow 50% of marks obtained for the features BUT 0 marks out of the 5 for sketch map

Mixed woodland shown and named

award 5 marks to all candidates

Four other items shown and named as follows:

Showing

3 marks graded

Naming/identifying

2 marks

Total Marks 30

B. Rocks

(i) Name **one** sedimentary rock and name **one** Irish location where this rock is found.

Rock named 2 marks
Irish Location 3 marks

(ii) Name **one** metamorphic rock and name **one** Irish location where this rock is found.

Rock named 2 marks
Irish Location 3 marks

(iii) Describe how sedimentary rocks **or** metamorphic rocks are formed.

10 SRPs @ 3 marks each 30 marks

Total Marks 40

C. Plate Tectonics

(i) Name **one** tectonic plate on the Earth's crust.

Plate named 3 marks

(ii) What is the name given to the area of earthquakes and volcanoes that stretches around the Pacific Ocean?

Pacific Ring of Fire 3 marks

(iii) Describe in detail how volcanoes occur.

8 SRPs @ 3 marks each 24 marks

Total Marks 30

Question 2

A. Internal Structure of the Earth

- (i) Four identified correctly @ 6 marks each
- | | |
|------------|---|
| Crust | A |
| Outer Core | C |
| Mantle | B |
| Inner Core | D |

- (ii) State **two** disadvantages of volcanoes.

2 SRPs @ 3 marks 6 marks

Total Marks 30

B. Surface Processes

Answer (i) or (ii).

- (i) Explain, with the aid of diagrams, the formation of any **two** different Irish landforms that you have studied.

Formation of any two Irish landforms @ 20 marks 40 marks

For each landform:

Formation by processes explained @ 20 marks each

Landform Named 1 mark

Diagram (s)

Two aspects @ 2 marks each 4 marks

Formation of landform explained

5 SRPs @ 3 marks each 15 marks

At least one SRP must explain a relevant process

Allow named Irish example for one SRP

OR

- (ii) Describe and explain any **two** processes of mass movement.

Explain any two process @ 20 marks each 40 marks

For each

Process stated 2 marks

6 SRPs @ 3 marks each 18 marks

Allow named example for one SRP

Total Marks 40

C. Fold Mountains

(i) Name **one** fold mountain that you have studied.

Fold mountain named

3 marks

(ii) With the aid of a diagram(s), explain how fold mountains are formed.

Diagram

Three @ 2 marks each

6 marks

Explanation

7 SRPs @ 3 marks each

21 marks

Total Marks 30

Question 3

A. Earthquakes

- | | | |
|-------|---|---------|
| (i) | 8.9 | 6 marks |
| (ii) | Sendai | 6 marks |
| (iii) | 15 | 6 marks |
| (iv) | 500 | 6 marks |
| (v) | Brief explanation 2 SRPs @ 3 marks each | 6 marks |

Total Marks 30

B. Human Interaction

Describe and explain how humans attempt to control **one** of the following surface processes:

- River processes
- Sea processes
- Mass movement.

Control named	3 marks
Description/Explanation	
9 SRPs @	3 marks each
	27 marks

Total Marks 30

C. Karst Landscape

- (i) Name the **three** features marked **A**, **B** and **C**.

Three named @ 3 marks each	9 marks
A Stalactite	
B Pillar, Column	
C Swallow hole	

- (ii) Name **one** other feature found in karst landscapes.

Feature named	2 marks
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- (iii) Explain, with the aid of a diagram, how any **one** feature, in a karst region is formed.

Naming	2 marks
Diagram	
Three @ 2 marks each	6 marks
Explanation	
7 SRPs @ 3 marks each	21 mark

Total Marks 40

REGIONAL GEOGRAPHY

Questions 4 to 6

Attempt **ONE** question

Question 4

A. Map Skills

Draw a sketch map of a **European** region (**not in Ireland**) that you have studied. On it **show** and **name** the following:

- One named river
- Two named towns or cities
- One named mountain range.

Sketch map of region outline

6 marks graded

Mark and identify 4 items @ 6 marks each

River	Named	2 marks
	Shown	4 marks graded
City 1	Named	2 marks
	Shown	4 marks graded
City 2	Named	2 marks
	Shown	4 marks graded
Mountain range	Named	2 marks
	Shown	4 marks graded

Total Marks 30

B. Agriculture in a Continental / Sub-Continental Region

Explain how any **two** of the following influence the development of agriculture in a **Continental / Sub-Continental Region (not in Europe)** that you have studied:

- Relief and soils
- Climate
- Markets.

Two influences explained @		30 marks
Influence 1 explained		
5 SRPs @	3 marks each	15 marks
Influence 2 explained		
5 SRPs @	3 marks each	15 marks

Total Marks 30

C. Economic Activities in Ireland

- Tourism
- Transport
- Manufacturing.

Describe the importance of any **two** of the above activities in an **Irish region** that you have studied.

Naming the region		1 marks
Activity 1 described		
7 SRPs @	3 marks each	21 marks
Activity 2 described		
6 SRPs @	3 marks each	18 marks

Total Marks 40

Question 5

A. Irish Tourism

- | | | |
|-------|--|---------|
| (i) | 2007 | 6 marks |
| (ii) | 2010 | 6 marks |
| (iii) | 2 million | 6 marks |
| (iv) | Two attractions named @ 3 marks each | 6 marks |
| (v) | Brief description
2 SRPs @ 3 marks each | 6 marks |

Total Marks 30

B. European Union Expansion and Ireland since 2000

- (i) Name **two** countries that joined the European Union since 2004.

Two countries named @ 2 marks each **4 marks**

- (ii) Explain **one** positive impact of the expansion of the European Union on Ireland.

Impact stated **3 marks**

Explained

5 SRPs @ 3 marks each **15 marks**

- (iii) Explain **one** negative impact of the expansion of the European Union on Ireland.

Impact stated **3 marks**

Explained

5 SRPs @ 3 marks each **15 marks**

Total Marks 40

C. Urban Regions

Describe **two** reasons for the growth of an urban area in any region that you have studied.

Two reasons described **30 marks**

Reason 1

5 SRPs @ 3 marks each **15 marks**

Reason 2

5 SRPs @ 3 marks each **15 marks**

Total Marks 30

Question 6

A. Ireland - Regions

Draw a sketch map of Ireland.

On it **show** and **name** the following:

- One region studied by you
- One named river in the region
- One named mountain in the region
- One named town or city in the region.

Sketch map of Ireland outline

6 marks graded

Mark and identify 4 items @ 6 marks each

Region	Named	2 marks
	Shown	4 marks graded
River	Named	2 marks
	Shown	4 marks graded
Mountain	Named	2 marks
	Shown	4 marks graded
Town/City	Named	2 marks
	Shown	4 marks graded

Total Marks 30

B. European Region

Explain how any **two** of the following influence the development of manufacturing industry in a **European region** that you have studied:

- Transport
- Raw materials
- Markets
- Government and European Union policies.

Naming the region **1 marks**

Influence 1 explained
7 SRPs @ **3 marks each** **21 marks**

Influence 2 explained
6 SRPs @ **3 marks each** **18 marks**

Total Marks 40

C. Regional Problems

Describe **two** problems faced by any region that you have studied.

Two problems described @ **30 marks**

Problem 1
Stated **3 marks**
4 SRPs @ **3 marks each** **12 marks**

Problem 2
Stated **3 marks**
4 SRPs @ **3 marks each** **12 marks**

Total Marks 30

SECTION 2 – ELECTIVES

Questions 7 to 12

You **MUST** attempt **ONE** question from:

Patterns and Processes in Economic Activities

OR

Patterns and Processes in the Human Environment

PATTERNS AND PROCESSES IN ECONOMIC ACTIVITIES

Questions 7 to 9

Question 7

A. Aerial Photograph

Examine the aerial photograph accompanying this paper.
Draw a sketch map of the area shown on the aerial photograph.
On it **show** and **name** the following:

- A marina with boats
- An industrial area
- A bridge
- A car park
- Two connecting roads.

Sketch Map as follows:

Limits/frame	1 mark
Proportions (landscape)	2 marks graded
Overall impression	2 marks graded
For an obvious tracing allow 50% of marks obtained for the features BUT 0 marks out of the 5 for sketch map	
Five items shown and named as follows:	
Showing	3 marks graded
Naming/identifying	2 marks

Total Marks 30

B. Multinational Companies (MNC)

(i) Name **one** multinational company operating in Ireland **and** state where it is located.

MNC named **2 marks**

MNC located **4 marks**

(ii) Describe **one** reason why the multinational company named in part (i) above chose this location.

Reason stated **3 marks**

Reason described

3 SRPs @ 3 marks each **9 marks**

(iii) Name **one** product manufactured by this multinational company **and** name **two** markets where the product is sold.

Product named **2 marks**

Market 1 named **4 marks**

Market 2 named **4 marks**

(iv) Explain **two** ways the Irish government encourages multinational companies to set up in Ireland.

Explanation 1

2 SRPs @ 3 marks each **6 marks**

Explanation 2

2 SRPs @ 3 marks each **6 marks**

Total Marks 40

C. Developing Economy

(i) Name **one** developing economy you have studied.

Developing economy named **6 marks**

(ii) Describe the effects of colonialism on this developing economy.

Description of the effects

8 SRPs @ 3 marks each **24 marks**

Total Marks 30

Question 8

A. Unemployment in Ireland

Examine the data on Irish unemployment rates.

- (i) Using **graph paper**, draw a suitable graph to illustrate this data.

Graph paper	2 marks
Vertical Axis labelled - Circle	3 marks graded
Horizontal Axis labelled - Centred	3 marks graded
4 Items @ 4 marks each graded	16 marks

- (ii) In your answer book, briefly explain **one** reason for the rise in unemployment in Ireland.

Brief explanation	
2 SRPs @ 3 marks each	6 marks

Total Marks 30

B. Ordnance Survey Map

Examine the 1:50000 Ordnance Survey map and legend accompanying this paper. Imagine you have the task of finding a suitable location to build a new recycling plant for the town.

- (i) State clearly where you would locate the recycling plant using a six-figure grid reference.

Six-figure grid reference	6 marks graded
----------------------------------	-----------------------

- (ii) Explain **one** reason in favour of this location and explain **one** reason against this location.

Reason in favour	
Explaining the reason	
4 SRPs @ 3 marks each	12 marks

Reason against	
Explaining the reason	
4 SRPs @ 3 marks each	12 marks

Total Marks 30

C. Climate Change

‘Many scientists believe that the climate of the world is going through major changes which are caused by the activities of people.’

(i) Name **two** causes of climate change.

Two named @ 2 marks each **4 marks**

(ii) Explain any **one** of the causes of climate change named in part (i).

Explanation
6 SRPs @ 3 marks each **18 marks**

(iii) Describe **one** effect of climate change on the world today.

Description
6 SRPs @ 3 marks each **18 marks**

Total Marks 40

Question 9

A. Economic Development

- | | | |
|-------|--|---------|
| (i) | Niger | 6 marks |
| (ii) | Norway | 6 marks |
| (iii) | Niger | 6 marks |
| (iv) | Ethiopia, Niger, Pakistan | 6 marks |
| (v) | Brief explanation
2 SRPs @ 3 marks each | 6 marks |

Total Marks 30

B. Ireland and the European Union

The Irish economy receives funding from the European Union through the following:

- Common Agricultural Policy (CAP)
- Common Fisheries Policy (CFP)
- Regional Development Fund (RDF)
- Social Funding.

Choose any **one** of the above and explain in detail how it benefits the Irish economy.

Explanation

10 SRPs @

3 marks each

Total Marks 30

C. Economic Activities and Conflict

‘The exploitation of natural resources and the development of economic activities can result in conflict arising between people.’

- (i) Name an example of **one** such conflict that you have studied.

Example named

4 marks

- (ii) Describe why this conflict has arisen.

Description

6 SRPs @ 3 marks each

18 marks

- (iii) Describe **one** possible solution to this conflict.

Description

6 SRPs @ 3 marks each

18 marks

Total Marks 40

PATTERNS AND PROCESSES IN THE HUMAN ENVIRONMENT

Questions 10 to 12

Question 10

A. Irish Emigration

(i)

Graph paper	2 marks
Vertical Axis labelled - Circle	3 marks graded
Horizontal Axis labelled - Centred	3 marks graded
4 Items @ 4 marks each graded	16 marks

(ii)

Reason explained	
2 SRPs @ 3 marks each	6 marks

Total Marks 30

B. Development of Towns

Examine the aerial photograph and the 1:50000 Ordnance Survey map and legend accompanying this paper.

Using the Ordnance Survey map **and** the aerial photograph, explain **three** reasons why the town of Carrick-on-Shannon developed at its present location.

Reason 1 explained		
5 SRPs @	3 marks each	15 marks
Reason 2 explained		
4 SRPs @	3 marks each	12 marks
Reason 3 explained		
4 SRPs @	3 marks each	12 marks

Understanding of the concept of town growth **1 mark**

3 pieces of map/photo evidence (2:1 or 1:2)

Total Marks 40

C. Overpopulation

(i) Explain the meaning of the term ‘overpopulation’.

2 SRPs @ 3 marks each

6 marks

(ii) Describe in detail **two** problems caused by overpopulation in any region that you have studied.

Region named

3 marks

Two problems described

Problem 1 = 4 SRPs @ 3 marks each

12 marks

Problem 2 = 3 SRPs @ 3 marks each

9 marks

Subtotal

24 marks

Total Marks 30

Question 11

A. Land-Use in Irish towns

Examine the aerial photograph accompanying this paper.

Draw a sketch map of the area shown on the aerial photograph.

On your sketch map **show** and **name** the following:

- An unfinished building
- A row of modern apartments
- A main shopping street
- A church
- A recreational (leisure) area.

Sketch Map as follows:

Limits/frame	1 mark
Proportions (landscape)	2 marks graded
Overall impression	2 marks graded

For an obvious tracing allow 50% of marks obtained for the features BUT 0 marks out of the 5 for sketch map.

Five items shown and named as follows:

Showing	3 marks graded
Naming/identifying	2 marks

Total Marks 30

B. Traffic Problems

Examine the aerial photograph accompanying this paper.

- (i) Using the usual notation (right background etc.), give **two** locations on the aerial photograph where traffic congestion could be a problem in Carrick-on-Shannon.

Two locations @ 3 marks each

6 marks each

- (ii) Select **one** of the locations chosen in part (i) and, using evidence from the aerial photograph, explain why traffic congestion might occur at this location.

Explanation

Four SRPs @ 3 marks each

12 marks

- (iii) Examine in detail **one** possible solution to this traffic congestion.

Examination

Four SRPs @ 3 marks each

12 marks

Total Marks 30

C. Urban Problems

- (i) Name a developing **or** a developed city that you have studied.

City named

4 marks

- (ii) Explain **two** problems arising from the growth of the city named in part (i).

Two problems explained

18 marks

Each problem:

3 SRPs @ 3 marks each

9 marks

- (iii) Describe **two** solutions to these problems.

Two solutions explained

18 marks

Each solution:

3 SRPs @ 3 marks each

9 marks

Total Marks 40

Question 12

A. Ireland's Population

- (i) 2000 6 marks
- (ii) 4.1 million 6 marks
- (iii) 0.7 million, 700,000 6 marks
- (iv) Brief explanation
2 SRPs @ 3 marks each 6 marks
- (v) Brief description
2 SRPs @ 3 marks each 6 marks

Total Marks 30

B. Urban Sprawl

- (i) Explain **two** causes of urban sprawl in any city that you have studied.

Named city 1 mark
Two causes explained 21 marks
Cause 1 = 4 SRPs @ 3 marks each
Cause 2 = 3 SRPs @ 3 marks each

- (ii) Explain **two** problems caused by this urban sprawl.

Two problems explained 18 marks
Problem 1 = 3 SRPs @ 3 marks each
Problem 2 = 3 SRPs @ 3 marks each

Total Marks 40

C. Population

‘One of the greatest challenges facing European governments in the future will be coping with ageing populations.’
Describe the difficulties that an ageing population can cause.

Describe the difficulties

10 SRPs @ 3 marks each 30 marks

Total Marks 30

Appendix 1 – Geographical Investigation Topics

The list of Prescribed Topics for candidates sitting the 2012 examination is as follows:

1. A study of one landform evident on the Irish landscape formed by geomorphic processes.
2. Study the relationship between economic activity and traffic flow in a local area.
3. Analyse the change in land-use patterns from the Central Business District (CBD) outwards in a local area over time.
4. Water pollution – A study of a local stream or river.
5. Demographic change in a local setting.
6. A survey of the distribution of economic activities past and present in a local area.

Appendix 2 – Marcanna Breise as ucht freagairt trí Ghaeilge

Léiríonn an tábla thíos an méid marcanna breise ar chóir a bhronnadh ar iarrthóirí a ghnóthaíonn thar 75% d'iomlán na marcanna.

N.B. Ba chóir marcanna de réir an ghnáthráta a bhronnadh ar iarrthóirí nach ghnóthaíonn thar 75% d'iomlán na marcanna. Ba chóir freisin an marc bónais sin a shlánú síos.

Iomlán: 400 Gnathráta: 10%

Bain úsáid as an ghnáthráta i gcás marcanna suas go 300. Thar an marc sin, féach an tábla thíos.

Bunmharc	Marc Bónais
301 - 303	29
304 - 306	28
307 - 310	27
311 - 313	26
314 - 316	25
317 - 320	24
321 - 323	23
324 - 326	22
327 - 330	21
331 - 333	20
334 - 336	19
337 - 340	18
341 - 343	17
344 - 346	16
347 - 350	15

Bunmharc	Marc Bónais
351 - 353	14
354 - 356	13
357 - 360	12
361 - 363	11
364 - 366	10
367 - 370	9
371 - 373	8
374 - 376	7
377 - 380	6
381 - 383	5
384 - 386	4
387 - 390	3
391 - 393	2
394 - 396	1
397 - 400	0

Geographical Investigation – Not included in total for bonus marks

Note: Modified marking scheme available for candidates who sat a modified examination paper.

