



**Coimisiún na Scrúduithe Stáit
State Examinations Commission**

**LEAVING CERTIFICATE
EXAMINATION 2006**

GEOGRAPHY

ORDINARY LEVEL

**MARKING SCHEME
AND
NOTES**

Geographical Investigation- Core Unit 3

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

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

3. Gathering of Data
Two Methods @ **18m each**
Each method – **9 SRPs @ 2m each. (18 x 2)** **36 marks**

Coherence – 2 marks graded Conformity with prescribed length – 2marks	4 marks
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Total 40 marks

4. Results, Conclusions, Evaluation [30 marks]
Three headings @ **8marks each**
Each heading: **4 SRPs @ 2marks each** **24 marks**

Coherence – 4 graded marks Conformity with prescribed length = 2marks	6 marks
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Total Marks 30

5. Organisation and Presentation of Data
10 SRPs @ 2marks each Total Marks 20

PART ONE – SHORT-ANSWER QUESTIONS – 100 MARKS

Attempt TEN questions

All Questions carry equal marks

THESE QUESTIONS TO BE ANSWERED IN THE SPACES PROVIDED

1. Examine the diagram above and then match one of the descriptions in the table below with each of the letters in the diagram.

Description	Letter	Marks
A deep hollow in a mountain called a Corrie or Cirque	A	2
As the glacier melts it creates a long ridge called a terminal moraine.	D	2
A knife like ridge called an Arête.	C	2
A Pyramidal Peak caused by glacial erosion.	E	2
As the glacier moves cracks form in the ice sheet.	B	2

Total Marks 10

2. Coastal Features: The photograph shows a coastal region.

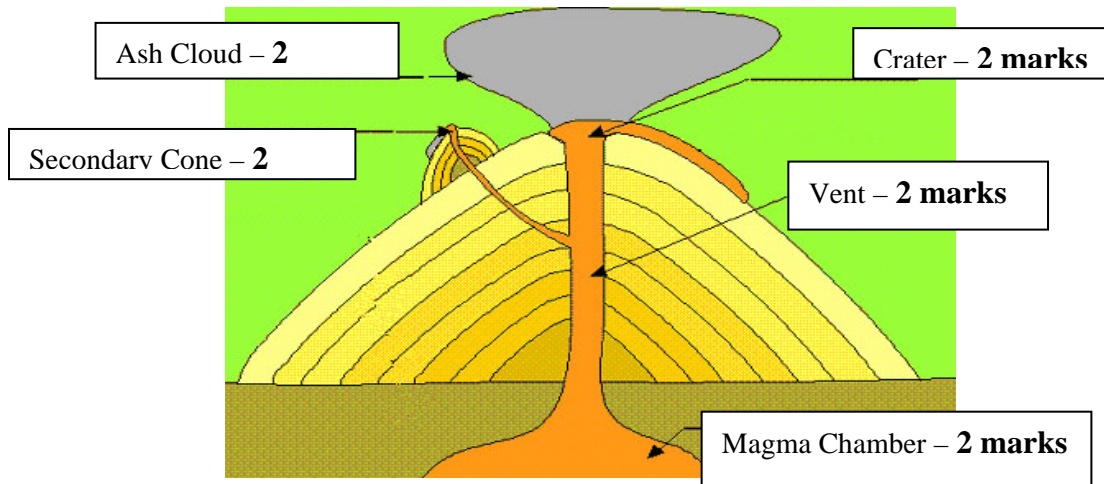
Description	Marks
Feature of Deposition 1	2
Feature of Deposition 2	2
Constructive Waves	2
Way 1	2
Way 2	2

Total Marks 10

3. Volcanoes

Examine the diagram of a volcano shown above.

Use the following terms to **fill in the blanks on the diagram**:



Five features @ 2 marks each

Total Marks 10

4. Satellite Imagery

The satellite images shown here show an area of Thailand before and after the tsunami of December 2004.

	Description	Marks
(i)	What is a tsunami?	2
(ii)	Name one cause.	2
(iii)	Name problem 1	2
(iv)	Name problem 2	2
(v)	Name problem 3	2

Total Marks 10

5. Rock Type

The above photograph shows a well known Irish landscape.

Select the correct answer from **EACH** of the statements below and write your answer in the space provided.

Description	Marks
Igneous	2
Close to surface	2
Quickly	2
Fine Grained	2
Giant's Causeway	2

Total Marks 10

6. Ordnance Survey

Examine the Ordnance Survey map accompanying this paper. Calculate (in square kilometres) the approximate area of: The entire map extract:

Area	Marks
108sqkm	10

Total Marks 10

7. Ordnance Survey

Examine the Ordnance Survey map accompanying this paper. Identify the **antiquity** shown at each of the following grid references:

	Grid Reference	Antiquity	Marks
(i)	V892904	Standing Stone	2
(ii)	V949887	Ross/Castle Castle	2
(iii)	V988924	Ringfort or Líos or Rath or Enclosure	2
(iv)	V878908	Ogham Stone	2
(v)	V977871	Muckross Friary/Friary	2

Total Marks 10

8. Aerial Photograph

Examine the aerial photograph of Killarney that accompanies this paper.

	Description		Marks
(i)	Oblique		2
(ii)	Location 1		2
(iii)	Location 2		2
(iv)	One Advantage stated		4

Total Marks 10

9. Examine the Diagram below.

(a) Name **EACH** of the three river patterns in the boxes provided.

	Description		Marks
A	Pattern 1	Trellised	2
B	Pattern 2	Radial	2
C	Pattern 3	Dendritic	2

(b) The O.S. Map extract below shows a river valley

(i)	River Course	Middle/Lower Course	2
(ii)	River Feature at X	Ox Bow Lake	2

Total Marks 10

10. Ireland

. The map below shows the household disposable income per head in Ireland in 2002.

	County		Marks
(a)	Dublin		2
(b)	(i)	Kerry/Cavan/ Donegal	2
	(ii)	Kerry/Cavan/ Donegal	2
	(iii)	Kerry/Cavan/ Donegal	2
(c)	ONE Valid Reason Named		2

Total Marks 10

11. Regions

List **FIVE** countries from the above table which are **NOT** in Europe
Any **Five** countries from the list below @ **2 marks each**.

Country	Marks
Australia	2
New Zealand	2
Japan	2
Canada	2
Korea	2
Mexico	2
USA	2
Turkey	2

Total Marks 10

12. Features of Erosion

The following features are the result of action by ice, river or sea action. In the case of each feature listed state which of the agents (ice, rivers, and sea) formed it.

Feature	Formed by	Marks
Waterfall	River	2
Interlocking Spur	River	2
Esker	Ice	2
Blowhole	Sea	2
Cirque	Ice	2

Total Marks 10

PART TWO – STRUCTURED QUESTIONS – 300 MARKS

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

- **Two** questions from Section 1
- **One** question from Section 2

THESE QUESTIONS TO BE ANSWERED IN THE ANSWERBOOK

SECTION 1 - CORE

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

Attempt ONE question

Question 1

A. Examine the 1:50000 Ordnance Survey extract and legend supplied with this paper. Draw a sketch-map of the area covered by the extract. On it **mark** and **name** the following:

- The River Flesk
- A Ribbon or Paternoster Lake
- A Battle Field Site
- A Nature Reserve
- An area of Natural Woodland

(30 Marks)

Scheme:

Draw a sketch Map =

5 Marks graded

- **Limits/frame =** 1 marks
- **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.

Mark and identify 5 items @

5 marks graded

Showing =

3 marks graded

Naming/identifying

2 marks

Total Marks 30

B. Select any **ONE** of the following surface processes:

- Sea/marine action
- River action
- Glacial action
- Mass movement.

Explain the formation of any **TWO** Irish landforms caused by your selected process with the aid of diagrams.

(40 Marks)

Scheme

Formation of any two Irish landforms @ 20 marks = 40 marks

For each landform:

Formation by processes explained @ 20 marks each

Landform Named = 3 marks

Process Named 1 + 1 marks

Diagram

Two SRPs 3 marks each 6 marks

Landform Explained

Three SRPs @ 3 marks each 9 marks

(At least one SRP must explain a relevant process)

(Allow named Irish example for one SRP.)

Total Marks 40

C. With reference to an example which you have studied, describe and explain **ONE** way human attempts to control river processes OR marine (sea) processes OR mass movement.

(30 Marks)

Scheme

One way in which humans attempts to control natural processes @ 30 marks graded.

Way named = 3 marks

Naming a process controlled 3 marks

Way explained/described.

Seven SRPs @ 3m each 21 marks

Any valid example 3 marks

Total Marks 30

Question 2

A. With reference to the regions labelled **V, W, X, Y** and **Z** on the above map **state in your answer book** which points to:

- A constructive margin
- A destructive margin
- A transverse/transform margin
- A Ridge of Fold Mountains
- A Hot Spot

(30 Marks)

Scheme

Five labelled regions @ 6 marks each as follows

Feature	Letter	Marks
Constructive Margin	X	6 marks
Destructive Margin	Z	6 marks
Transverse/transform	Y	6 marks
Ridge of Fold Mts.	W	6 marks
Hot Spot	V	6 marks

Total 30 marks

B. Explain with the aid of an example which you have studied why volcanic activity occurs (happens) at plate margins.

(30 Marks)

Scheme

Explain why volcanic activity occurs at plate margins @

30 marks graded.

Named Example =

6 marks

Eight SRPs @ 3 marks each

24 marks

Total marks 30

C. Read the report below and answer the questions which follow it in **your answer book:**

(40 Marks)

Scheme

Read the report and answer the questions which follow @ 40 marks graded.

(i) How strong? 7.6 magnitude 8 marks

(ii) How many people? 3.5 million 8 marks

(iii) Explain ..caused ...damage in highland areas = 24 marks

Eight SRPs @ 3 marks each **24 marks**

Total marks 40

Question 3

A. With reference to the boxes labelled **A, B** and **C** on the above diagram of the Rock Cycle **state in your answer book which** letter represents **each** of the following:

- Sedimentary Rock
- Metamorphic Rock
- Magma

(30 Marks)

Scheme

Diagram of Rock Cycle and what are represented @ 30 marks

- | | | |
|--------------------|---------|----------|
| • Sedimentary rock | Label A | 10 marks |
| • Metamorphic Rock | Label C | 10 marks |
| • Magma | Label B | 10 marks |

Total marks 30

B. What is the chief type of rock found in the Karst regions?
Describe in detail how this type of rock is formed.

(30 Marks)

Scheme

Naming chief rock type in the Burren.

6 marks

Describing how the rock was formed.

Eight SRPs @ 3 marks each

24 marks

Total marks 30

C. Explain with the aid of diagrams how any **TWO underground landforms** found in a Karst region are formed.

(40 Marks)

Scheme

Explaining TWO underground landforms @ 40 marks graded

Two landforms @ 20 marks each

Each 20

Named landform

3 marks

Process Named

1 + 1 marks

Diagram

Two SRPs @

3 marks each

6 marks

Explaining landform

Three SRPs @

3 marks each

9 marks

(Allow one SRP if a valid example is given)

Total 40 marks

REGIONAL GEOGRAPHY

Attempt ONE question

Question 4

A. The figures below show the tourist regions of Ireland visited by domestic tourists in 2004.

Use graph paper to draw a graph that illustrates (shows) the data in the table above.

Scheme

Drawing graph @ 30 marks graded.

Graph Paper Used	3 marks
Vertical Axis labelled - Circle	3 marks
Horizontal Axis labelled - Centred	3 marks
Seven Items @ 3 marks each	21 marks

Total marks 30

B. With reference to **one** European region which you have studied give and explain in detail **TWO** reasons why tourists might visit the region.

Scheme

Naming the region	4 marks
Two reasons why tourism visit @ 18 marks	36 marks
State the reason	3 marks
Explaining the reason	
5 SRPs @ 3 marks each	15 marks

Total marks 40

C. Describe the influence which **either** Climate **OR** the Physical Landscape has on the development of tourism in any non-European Continental or Sub Continental region which you have studied.

Scheme

Naming the region	6 marks
Describe the influence of Climate OR the Physical landscape	
8 SRPs @ 3 marks each	24 marks
(List of named attractions/activities max <u>four</u> SRPs)	

Total marks 30

Question 5

- A. Draw a sketch map of Ireland
- **TWO** Contrasting Regions
 - **ONE** major city or town in **each** region

(30 Marks)

Scheme

Sketch Map of Ireland =

6 Marks graded

Mark and identify 4 items @ 6 marks graded

Region 1	Shown	4 marks graded
	Named	2 marks
Region 2	Shown	4 marks graded
	Named	2 marks
City/Town 1	Shown	4 marks graded
	Named	2 marks
City/ Town 2	Shown	4 marks graded
	Named	2 marks

Total marks 30

- B. Explain the importance of **ONE** of the primary industries listed below to the economy of **any** European region studied by you.
- Agriculture
 - Forestry
 - Fishing
 - Mining/Energy

Scheme

Importance of primary industry on the economy of region

Naming European region =

6 marks

Explaining importance to economy

8 SRPs @ 3 marks each

24 marks

Total marks 30

- C. With reference to **any** Non-European, Continental or Sub continental region you have studied:

Describe **two** factors which **have** influence its industrial development.

Scheme

Naming the region

4 marks

Two factors which industrial development @ 18 marks =

36 marks

Stating the factor

3 marks

Each factor explained

5 SRPs @

3 marks each

15 marks

Total Marks 40

QUESTION 6

A.

Examine the graph above which shows the populations of Mayo and Kildare since 1841.

(30 Marks)

Scheme

(i) Which year did Kildare show a change -1966 **6 marks**

(ii) Kildare exceeds Mayo **1986** **6 marks**

(iii) Explain two causes of rise in population @ 18 marks

Each cause explained = **9 marks graded**

Naming the cause **3 marks**

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

Total marks 30

B.

With reference to **two** contrasting European regions explain the differences between them under **one** of the following headings:

- Climate
- Population patterns
- Energy sources
- Manufacturing Industry.

(40 marks)

Scheme

Naming region 1 **5 marks**

Naming region 2 **5 marks**

Two explanations of heading @ 15 marks each = **30 marks**

Each 15

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

Total marks 40

- C. In the case of a non-European Continental or Sub Continental region which you have studied describe briefly **two** factors which have influenced the development of agriculture **or** industry in the region.

(30 marks)

Scheme

Naming the region

6 marks

Two factors on industrial/agricultural development @ 12 marks =

24 marks

Naming the factor

3 marks

Each factor explained

3 SRPs @

3 marks each

9 marks

Total marks 30

SECTION 2 - ELECTIVES

You **MUST** attempt **ONE** question
From **EITHER**
Patterns and Processes in Economic Activities
or
Patterns and Processes in the Human Environment

Question 7

- A.** The above table shows the growth in employment rate 1990-2003. (OECD)
- (i) Which country has the smallest increase in employment rate in that period?
 - (ii) Which two countries have the biggest drop in employment rate in that period?
 - (iii) Which country has the biggest increase in employment rate during that period?

(30 Marks)

Scheme

- (i) Which country smallest increase United Kingdom/Germany 8 marks**
- (ii) Which two countries**
- | | |
|---------------|----------------|
| Turkey | 7 marks |
| Poland | 7 marks |
- (iii) Which country has the biggest increase Ireland 8 marks**

Total marks 30

- B.** Examine the aerial photograph accompanying this paper. Imagine you have the task of finding a suitable location for a company making computer software.

(30 Marks)

- (i) State clearly where you would locate the factory using the usual notation.

Scheme

State location using correct notation 6 marks

- (ii) Explain fully **ONE** reason in favour of this location and **ONE** reason against it.

Scheme

Explain one reason FOR and one AGAINST the location @ 24 marks (12+12)

Reason Stated 3 marks

Reason Explained

Three SRPs @ 3 marks each 9 marks

Total Marks 30

- C. Many multinational companies have set up in Ireland in recent years. Explain fully **TWO** reasons why Ireland is attractive to such companies.
(40 marks)

Scheme

Two reasons why companies are attracted to Ireland @	20 marks =	40 marks
Name a MNC		4 marks
Two reason explained @	18 marks each =	36 marks
Each	18	
Reason stated		3 marks
Reason explained		
5 SRPs @	3 marks each	15 marks

Total Marks 40

Question 8

A. Examine the table below which refers to a Developed and a Developing country.

(30 Marks)

(i) State which country –A or B is **DEVELOPING**.

Scheme

State which country is developing Country A 10 marks

(ii) List **two** indicators from the table which helped your decision

Scheme

List two indicators @ 10 marks each
Total marks 30

B. Membership of the EU has been a major factor in Ireland’s economic development. Describe **TWO** ways in which Ireland has gained from its EU membership.

(40 Marks)

Scheme

Describe two ways @ 20 marks = 40 marks

Way named 5 marks

Way Explained 5 SRPs @ 3 marks each 15 marks

Total marks 40

C. Some developing countries have suffered significantly from colonialism in the past. With reference to a **specific country or region** which you have studied describe **TWO** ways in which colonialism has limited that region’s development.

(30 Marks)

Scheme

Naming a country or region 6 marks

Two ways which industrial development @ 12 marks = 24 marks

Way named 3 marks

Way Explained 3 SRPs @ 3 marks each 9 marks

Total marks 30

Question 9

- A. The table below refers to the amount of CO₂ in the atmosphere in Ireland.
Use graph paper to draw a graph that illustrates (shows) the data in the table above.

(30 Marks)

Scheme

Drawing graph @ 30 marks graded.

Scheme

Graph Paper Used

4 marks

Vertical Axis labelled - Circle

3 marks

Horizontal Axis labelled - Centred

3 marks

Five Items @ 4 marks each

20 marks

Total 30 marks

- B. (i) Name **TWO** Fossil Fuels

Scheme

Two named fossil fuels @

8 marks each

Total 16

- (ii) Fossil fuels cause much damage to the environment such as global warming and acid rain. Explain how either global warming **OR** acid- rain is caused and describe some of its effects on the environment.

Scheme

Cause explained

12 marks graded

Effect explained

12 marks graded

Each 12

4 SRPs @

3 marks each

12 marks

Total marks 40

C. The environment can also be endangered by the following activities:

- Over fishing
- Mass tourism
- Exploitation of energy resources
- Deforestation
- Desertification

Examine the threat caused by **ONE** of the above.

In your answer:

(30 Marks)

(i) Describe the problem caused.

Scheme

Naming the problem

3 marks

Describing the problem =

4 SRPs

3 marks each

12 marks

(Allow one SRP for named example)

(ii) Outline **one** possible solution.

Outline one possible solution=

15 marks

Scheme

Naming the solution

3 marks

Describing the solution =

4 SRPs

3 marks each

12 marks

(Allow one SRP for named example)

Total marks 30

Question 10.

Examine the **aerial photograph** accompanying this paper.

A. Draw a sketch map of the area shown on the photograph. On your sketch map **mark** and **name** the following:

- A large car-park
- The street pattern
- An area of woodland
- The CBD (Central Business District)
- An area of terraced housing with gardens

(30 Marks)

Scheme:

Draw a sketch Map = 5 Marks graded

- **Limits/frame =** **1 marks**
- **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.

Mark and identify 5 items @ 5 marks graded

Showing = **3 marks graded**
Naming/identifying **2 marks**

Total Marks 30

B. Explain fully **TWO** reasons why it is important to preserve green belts such as this within towns and/or cities.

(30 Marks)

Scheme

Two reasons to preserve green belts @ 15 marks = **30 marks**

Reason named **3 marks**

Explained reason

4 SRPs @ **3 marks each** **12 marks**

(Allow one SRP for named example)

Total marks 30

C. Examine the 1:50000 O. S. Map of Killarney supplied with this paper and answer the following:

(40 Marks)

(i) Name and give locations for **TWO** patterns of rural settlement on the map.
Scheme

	Name	Location
Rural Pattern 1	5m	6/3m
Rural Pattern 2	5m	6/3m

(ii) Explain the development of **one** these patterns in detail.

Scheme

Explain the development of one pattern =

Six SRPs @

18 marks

3 marks each

Total marks 40

Question 11 Population and Migration Estimates for Ireland

A. Use the figures from the above table to answer the following questions **in your answer book.**

		(30 Marks)
(i) Which year did immigration exceed emigration	1997	10 marks
(ii) Difference between immigration and emigration	53.4	10 marks
(iii) What year was emigration greatest	1989	10 marks

Total marks 30

B. Examine **two** reasons why immigration into Ireland has increased in recent times.
(30 Marks)

Scheme

Two reasons why immigration into Ireland... @ 15 marks = 30 marks

For each Reason

Naming the reason

3 marks

Explaining the reason

4 SRPs @

3 marks each

12 marks

Total marks 30

C.

(i) Outline fully **TWO** problems faced by refugees when they seek asylum (a safe place) in a new country such as Ireland.

(40 Marks)

Scheme

Two problems faced @ 10 marks each =

20 marks

Naming the problem

4 marks

Explaining the problem

Two SRPs @

3 marks each

6 marks

(ii) Explain **two** measures that governments could take to help refugees solve these problems.

Scheme

Two measures faced @ 10 marks each =

20 marks

Measure named

4 marks

Measure explained

Two SRPs @

3 marks each

6 marks

Question 12

- Sudan 2000** **Sudan 2050**
- A. Examine the population pyramid above. Describe **two** differences between the structure in 2000 and the projected structure for 2050

(30 marks)

Scheme

Two differences between the structure @ 15 marks =

30 marks

Each Difference examined

Name the difference

6 marks

Examine the difference

3 SRPs @

3 marks each

9 marks

(Allow reference to figures as SRPs)

Total marks 30

B.

(30 marks)

- (i) Explain what is meant by 'overpopulation'.

Scheme

Explain the term-

3 SRPs @

3 marks each

9 marks

- (ii) Explain **two** effects of overpopulation in a region or country you have studied.

Scheme

Two effects explained @ 9 marks each =

18 marks

Each 9

Naming the effect

3 marks

2 SRPs

3 marks each

6 marks

Reference to region or country studied	3 marks
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Total marks 30

- C. Using examples which you have studied suggest how urban problems in the Developed World would differ from urban problems in the Developing World.

Scheme

Problems in the Developing world =

18 marks

Problems in the Developed world =

18 marks

Each 18

5 SRPs @

3 marks each

15 marks

Reference to Developed/Developing World

3 marks

Overall referring to difference	4 marks graded
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Total marks 40