

## Coimisiún na Scrúduithe Stáit State Examinations Commission

**Leaving Certificate 2013** 

**Marking Scheme** 

Geography

**Ordinary Level** 

### Note to teachers and students on the use of published marking schemes

Marking schemes published by the State Examinations Commission are not intended to be standalone documents. They are an essential resource for examiners who receive training in the correct interpretation and application of the scheme. This training involves, among other things, marking samples of student work and discussing the marks awarded, so as to clarify the correct application of the scheme. The work of examiners is subsequently monitored by Advising Examiners to ensure consistent and accurate application of the marking scheme. This process is overseen by the Chief Examiner, usually assisted by a Chief Advising Examiner. The Chief Examiner is the final authority regarding whether or not the marking scheme has been correctly applied to any piece of candidate work.

Marking schemes are working documents. While a draft marking scheme is prepared in advance of the examination, the scheme is not finalised until examiners have applied it to candidates' work and the feedback from all examiners has been collated and considered in light of the full range of responses of candidates, the overall level of difficulty of the examination and the need to maintain consistency in standards from year to year. This published document contains the finalised scheme, as it was applied to all candidates' work.

In the case of marking schemes that include model solutions or answers, it should be noted that these are not intended to be exhaustive. Variations and alternatives may also be acceptable. Examiners must consider all answers on their merits, and will have consulted with their Advising Examiners when in doubt.

#### **Future Marking Schemes**

Assumptions about future marking schemes on the basis of past schemes should be avoided. While the underlying assessment principles remain the same, the details of the marking of a particular type of question may change in the context of the contribution of that question to the overall examination in a given year. The Chief Examiner in any given year has the responsibility to determine how best to ensure the fair and accurate assessment of candidates' work and to ensure consistency in the standard of the assessment from year to year. Accordingly, aspects of the structure, detail and application of the marking scheme for a particular examination are subject to change from one year to the next without notice.

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  $(18 \times 2)$ 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

Organisation and Presentation of Results
 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.

## THESE QUESTIONS ARE TO BE ANSWERED IN THE SPACES PROVIDED

1.	Volca	no			
	Magm Vent Lava Ash C Crate		E D A B	2 marks 2 marks 2 marks 2 marks 2 marks	
					Total 10 Marks
2.	Rocks				
	(i)	The Giants Causeway The Burren Connemara	С А В	2 marks 2 marks 2 marks	
	(ii)	Marble Basalt	Metamorphic Igneous	2 marks 2 marks	Total 10 Marks
3.	Physic	cal Processes			TOTAL TO MAINS
	Freez River Chem	e Thaw Action Erosion ical Weathering ng and Abrasion	D A E C B	2 marks 2 marks 2 marks 2 marks 2 marks	

Total 10 Marks

4.	Kars	t Landscape			
	(i)	Clint Grike	<i>А</i> В	2 ma 2 ma	
	(ii)	Any valid location		2 ma	
	(iii)	2 named features	@ 2 marks each		
		Cavern/Passage/ S	Stalactite/Stala	igmite/Pillar/Cur	tain
					Total 10 Marks
5.	Ordn	ance Survey Map			
	(i)	North East/ Nort	h North East	5 ma	rks
	(ii)	3.4 (range 3-4)	km)	5 ma	rks
					Total 10 Marks
6.	Ordn	nance Survey Map			
	(i)	Garda Síochana/P	olice	2 ma	rks
		Moated Site		2 ma	rks
		Railway Station		2 ma	rks
	4	Industrial Estate			
	(ii)	Correct symbol di	rawn	2 ma	rks
					Total 10 Marks
7.	Aeria (i)	al Photograph			
	• • •	nder: Centre Middle	ground/Right bo	ackground 2 ma	rks
	Car f	Park: All except right	, left and centre	background 2 ma	rks
	Recr	eational area: Any v	alid location	2 ma	rks
	A br	idge with cars: Righ	t foreground	2 ma	rks
	(ii)	Oblique		2 ma	rks
					Total 10 Marks
8.	Regio	ons			
	The	Islamic World	В		
		partement	A		
		Mediterranean	D		
	The	Greater Dublin Area	ı E	2 ma	rks

Total 10 Marks

2 marks

С

The Gaeltacht

## 9. Economic Activity

(i) Agriculture B 2 marks
Tourism C 2 marks
Mining A 2 marks
Industry D 2 marks
(ii) D 2 marks

Total 10 Marks

## 10. Satellite Image Interpretation

A factory burning fossil fuels

Fjords in Norway

D

2 marks

Mining in the desert

E

2 marks

The San Andreas Fault

A

2 marks

Icebergs breaking from an ice sheet

C

2 marks

Total 10 Marks

#### 11. Weather Charts

1020-10292 marksCalm2 marksCorrect symbol2 marksIsotherms2 marksIsobars2 marks

Total 10 Marks

#### 12. Weather Statistics

January 2 marks 3 months 2 marks December 2 marks July 2 marks 9.5 2 marks

Total 10 Marks

## 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. Plate Tectonics

(i) Describe briefly how the currents at **A** move.

Brief explanation

2 SRP's @ 3 marks each

6 marks

(ii) Name the landform at **B** which is found on the sea floor of the Atlantic Ocean.

Mid Atlantic Ridge

6 marks

(iii) Are the plates colliding or separating at C?

Separating

6 marks

(iv) Explain briefly the process of subduction.

**Brief** explanation

2 SRP's @ 3 marks each

6 marks

(v) Describe briefly the difference between lava and magma.

Brief explanation on each one @ 3 marks

6 marks

Total Marks 30

## B. Earthquakes

(i) Name **one** location where an earthquake has occurred.

Named location

2 marks

(ii) Name a scale used to measure the force of an earthquake.

Named scale

2 marks

(iii) Describe how earthquakes occur and describe their main effects.

Description

12 SRP's @ 3 marks each

36 marks

(To gain full marks reference to both cause <u>and</u> effect must be made)

## C. Human Interaction with the Rock Cycle

Describe any **one** of the following examples of how humans interact with the rock cycle:

- Quarrying
- Mining
- Oil/Gas exploration
- Geothermal energy production.

Example named 9 SRP's @3 marks each 3 marks 27 marks

#### A. Mass Movement

(i) Soil Creep D 6 marks
Landslide A 6 marks
Rockfall B 6 marks
Slumping C 6 marks

(ii) Explain briefly what is meant by mass movement.

2 SRP's @3 marks each 6 marks

Total Marks 30

#### B. Rocks

(i) Name any **two** examples of sedimentary rock.

Two examples named @ 2 marks each 4 marks

(ii) Name any **two** uses of the sedimentary rocks named above.

Two uses named @ 3 marks each 6 marks

(iii) Describe how sedimentary rock is formed.

10 SRP's @ 3 marks each 30 marks

Total Marks 40

## C. Weathering

Describe and explain any **one** of the following weathering processes that you have studied:

- Freeze Thaw Action
- Carbonation.

Explaining any one weathering process

10 SRP's @ 3 marks each 30 marks

## 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 Slaney
- An area of land above 100 metres
- A railway line
- The N11 road
- The built up area of Enniscorthy.

Limits/frame 1 mark

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 5 for the sketch map.

Five items shown and named as follows:

Showing 3 marks graded

Naming/Identifying 2 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

#### C. Surface Processes

Answer (i) or (ii).

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

Formation of any two landforms @ 20 marks each 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 SRP's @ 3 marks each 15 marks

At least one SRP must explain a relevant process

Allow named 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 SRP's @ 3 marks each 18 marks

Allow named example for one SRP

#### **REGIONAL GEOGRAPHY**

#### **Questions 4 to 6**

## Attempt **ONE** question

## **Question 4**

## A. Contrasting Regions in Ireland

Draw a sketch map of Ireland. On it **show** and **name** the following:

- **Two** contrasting regions in Ireland.
- A named town or city in each region.
- A named river in each region.

Sketch map of Ireland outline 6 marks graded

Mark and identify 6 items @ 4 marks graded

Region 1

Named 2 marks

Shown 2 marks graded

Region 2

Named 2 marks

Shown 2 marks graded

Town/City 1

Named 2 marks

Shown 2 marks graded

Town/City 2

Named 2 marks

Shown 2 marks graded

River 1

Named 2 marks

Shown 2 marks graded

River 2

Named 2 marks

Shown 2 marks graded

## **B.** European Union Expansion

(i) Describe the advantages of European Union expansion for Ireland.

Naming at least one advantage 2 marks
Advantages explained

6 SRP's @ 3 marks each 18 marks

(ii) Describe the disadvantages of European Union expansion for Ireland.

Naming at least one disadvantage 2 marks

Disadvantages explained

6 SRP's @ 3 marks each 18 marks

Total Marks 40

## C. European Urban Growth

Name **one** urban area in a **European** region (**not in Ireland**) that you have studied. Explain **two** reasons for the growth of this urban area.

Naming an urban area 2 marks

Reasons for growth:

Reason 1 named 2 marks

Explanation

4 SRP's @ 3 marks each 12 marks

Reason 2 named 2 marks

Explanation

4 SRP's @ 3 marks each 12 marks

## A. Agricultural Production – Ireland

(i)	42.3%	6 marks
(ii)	South & East Region	6 marks
(iii)	20.4%	6 marks
(iv)	Any two crops named @ 3 marks each	6 marks
(v)	Brief description	
	2 SRP's @ 3 marks each	6 marks

Total Marks 30

## **B.** Agriculture in Europe

Explain how any **two** of the following influence the development of agriculture in a **European** region (**not in Ireland**) that you have studied:

- Relief and Soils
- Climate
- Markets.

Two influences explained @ 30 marks

Influence 1 explained 5 SRP's @ 3 marks each

15 marks

Influence 2 explained

5 SRP's @ 3 marks each

15 marks

Total Marks 30

## C. Economic Activities in a Continental / Sub-Continental Region

Name a **Continental / Sub-Continental** region (**not in Europe**) that you have studied and explain any **two** of the following with regard to this region:

- The type of **farming** practised in the region
- The reasons for the development of **industry** in the region
- The reasons why **tourists** are attracted to the region.

Naming the region 1 mark

Sector 1 explained

7 SRP's @ 3 marks each 21 marks

Sector 2 explained

6 SRP's @ 3 marks each 18 marks

## A. Continental / Sub-Continental Region

Draw a sketch map of a **Continental / Sub-Continental** region (**not in Europe**) that you have studied.

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

- One named river in the region
- One named upland area in the region
- Two named towns or cities in the region.

## Sketch map of region outline

6 marks graded

## Mark and identify 4 items @ 6 marks graded

River	Named	2 marks
	Shown	4 marks graded
Upland Area	Named	2 marks
	Shown	4 marks graded
Town/City 1	Named	2 marks
	Shown	4 marks graded
Town/City 2	Named	2 marks
	Shown	4 marks graded

Total Marks 30

## B. Agriculture in an Irish Region

Explain how any **two** of the following influence the development of agriculture in an **Irish region** that you have studied:

- Climate
- Relief and Soils
- Markets

## Two factors explained @ 20 marks each

Naming an Irish region		1 mark
Influence 1 explained	7 @ 3marks each	21 marks
Influence 2 explained	6 @ 3 marks each	18 marks

## C. Cultural Regions

A region's culture can be defined by the following:

- Religion
- Language
- Music/Dance
- Games.

Describe and explain the importance of culture in any region that you have studied.

Naming the region Description/Explanation 9 SRP's @ 3 marks each 3 marks

27 marks

## **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

#### **Ouestions 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:

- Two connecting streets
- An industrial area
- An agricultural area
- A railway bridge
- A river.

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

## **B.** Renewable Energy

(i) Name **two** sources of renewable energy which are suitable for use in Ireland.

Two sources named @ 3 marks each

6 marks

(ii) Describe and explain why it is important to increase the use of renewable energy.

Described and explained 8 SRP's @ 3 marks each

24 marks

Total Marks 30

#### C. Colonisation

(i) Explain briefly the term colonisation.

**Brief** explanation

2 SRP's @ 3 marks each

6 marks

(ii) Name **one** country that was colonised.

Named country

4 marks

(iii) Describe and explain the impacts of colonisation.

Description/Explanation

10 SRP's @ 3 marks each

30 marks

#### **Irish Trade** A.

(i)	49,138m euro	6 Marks
(ii)	USA	6 marks
(iii)	18,160m euro	6 marks
(iv)	575m euro	6 marks
(v)	Brief explanation	

(v)

2 SRP's @ 3 marks each 6 marks

Total Marks 30

#### **Ordnance Survey Map** B.

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

With reference to the Ordnance Survey map, explain **three** reasons why tourists would be attracted to Enniscorthy and the surrounding area.

3 reasons explained @ 10 marks each	30 marks
Reason 1	
Stating reason	1 mark
3 SRP's @ 3 marks each	9 marks
Reason 2	
Stating reason	1 mark
3 SRP's @ 3 marks each	9 marks
Reason 3	
Stating reason	1 mark
3SRP's @ 3 marks each	9 marks
(1 SRP to be map evidence in each reason)	
	Total Marks 30

## C. Multinational Company (MNC)

(i) Name **one** multinational company that you have studied and state where it is located.

Name the MNC 2 marks
State location 2 marks

(ii) Describe and explain reasons for its present location.

Description/Explanation

12 SRP's @ 3 marks each 36 marks

## **A.** The Irish Construction Industry

(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 decrease in the number of houses built between 2005 and 2011.

Brief explanation

2 SRPs @ 3 marks each 6 Marks

Total Marks 30

#### B. Fossil Fuels

(i) Name **two** fossil fuels.

Two named examples @ 3 marks each 6 marks

(ii) Describe and explain the environmental impact of burning fossil fuels.

Description/Explanation

8 SRP's @ 3 marks each 24 marks

Total Marks 30

## C. European Union Policy

(i) Describe the positive impact of European Union policy on Ireland.

Stating one positive impact 2 marks

Description

6 SRP's @ 3 marks each 18 marks

(ii) Describe the negative impact of European Union policy on Ireland.

Stating one negative impact 2 marks

Description

6 SRP's @ 3 marks each 18 marks

#### PATTERNS AND PROCESSES IN THE HUMAN ENVIRONMENT

#### **Questions 10 to 12**

## **Question 10**

#### A. Land-Use in Irish Towns

Examine the aerial photograph of Enniscorthy accompanying this paper.

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

- The Central Business District (CBD)
- An industrial area
- A residential area
- A religious building
- A river.

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

## B. Migration – Rural to Urban

(i) Describe the push factors which contribute to migration from rural to urban areas.

Naming one push factor

Description

6 SRP's @ 3 marks each

18 marks

2 marks

(ii) Describe the pull factors which contribute to migration from rural to urban areas.

Naming one pull factor

2 marks

Description

6 SRP's @ 3 marks each

18 marks

Total Marks 40

## C. Aerial Photograph

Examine the aerial photograph of Enniscorthy accompanying this paper and answer the following questions.

(i) Using correct notation (right background, etc.), suggest a suitable location for a new school.

Correct location

3 marks

(ii) Explain **three** reasons why the location you chose in part (i) would be a suitable location for a new school.

Reason 1 explained

3 SRP's @ 3 marks each

9 marks

Reason 2 explained

3 SRP's @ 3 marks each

9 marks

Reason 3 explained

3 SRP's @ 3 marks each

9 marks

## A. Ireland's Population

(i)	4%	6 marks
(ii)	8%	6 marks
(iii)	Females	6 marks

(iv) Brief explanation

2 SRP's @ 3 marks each 6 marks
(v) Name 2 ways @ 3 marks each 6 marks

Total Marks 30

## **B.** Development of Towns

Using evidence from the Ordnance Survey map **and** the aerial photograph accompanying this paper, explain **three** reasons why the town of Enniscorthy developed at its present location.

Reason 1 explained

5 SRP's @ 3 marks each 15 marks

Reason 2 explained

4 SRP's @ 3 marks each 12 marks

Reason 3 explained

4 SRP's @ 3 marks each 12 marks

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

Understanding the concept of town growth 1 mark

Total Marks 40

## C. Developing World Cities

Describe and explain the problems caused by the rapid growth of a developing world city that you have studied.

Developing world city named 3 marks

Problems explained

9 SRP's @ 3 marks each 27 marks

### A. Ireland's Urban Population

(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, state **two** reasons for the growth of Irish towns.

Reasons stated

2 SRPs @ 3 Marks each 6 Marks

Total Marks 30

## **B.** Traffic Congestion

Describe and explain the measures being taken in towns and cities to solve the problem of traffic congestion.

Explanation of measures

10 SRP's @ 3 marks each 30 marks

Total Marks 30

## C. Patterns in Migration

(i) Explain **two** reasons why people immigrated (moved in) to Ireland in recent times.

Reason 1 stated 1 mark

Explanation

3 SRP's @ 3 marks each 9 marks

Reason 2 stated 1 mark

Explanation

3 SRP's @ 3 marks each 9 marks

(ii) Explain **two** reasons why people are now emigrating (moving out) of Ireland in large numbers.

Reason 1 stated 1 mark

Explanation

3 SRP's @ 3 marks each 9 marks

Reason 2 stated 1 mark

Explanation

3 SRP's @ 3 marks each 9 marks

## **Appendix 1 – Geographical Investigation Topics**

- A study of local traffic patterns.
- A local environmental issue.
- Changing landuse in a local area a study of spatial change and change through time.
- A local demographic study.
- Test the hypothesis that erosion is an active process in a fluvial or glacial or coastal environment.
- Investigate how geology effects the landscape 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 ngnóthaíonn thar 75% d'iomlán na marcanna. Ba chóir freisin an marc bónais sin a shlánú síos.

Iomlán: 400 Gnathráta: 10%

Bain úsáid as an ngnáthráta 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.

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