



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate 2018

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.
- Words, expressions or phrases must be correctly used in context and not contradicted, and where there is evidence of incorrect use or contradiction, the marks may not be awarded.
- As a general rule, if in doubt about the validity of any answer, examiners must consult their advising examiner before awarding marks.
- The suggestions, examples etc. in the scheme are not exhaustive and alternative valid answers etc. are acceptable.
- For the purpose of marking a Significant Relevant Point (SRP) is a single piece of factual information, to which an examiner will assign a mark weighting as prescribed in the marking scheme (typically 3 marks). As previously advised in Circular S85/09 and in the Sample Marking Indicators available on the SEC website each SRP should emerge from the information put forward by the candidate, leading to an overall coherent response to the question.

Geographical Investigation- Core Unit 3

(Please refer to Appendix 1 for Topics List)

1. Introduction

4 SRP's @ 1m each
C/L 1m

Total marks 5

2. Planning

4 SRP's @ 1m each
C/L 1m

Total marks 5

3. Gathering of Data

Two methods/tasks @ 18m each
Each method/task – 9 SRP's @ 2m each (18 x 2) 36m
Allow one SRP for diagram for each method/task.

C/L 4m graded (4/2/0)

Total marks 40

4. Results, Conclusions, Evaluation

Three headings @ 8m each
Each heading: 4 SRP's @ 2m each 24m

C/L 6m graded (6/4/2/0)

Total marks 30

5. Organisation and Presentation of Results

Two different methods of presentation.
Each presentation: 4 SRP's @ 2m each
For each presentation coherence 2m graded (2/1/0)

Total marks 20

Note: C/L is Overall coherence and conformity to prescribed length.

Breakdown of Presentation Marks

Pie Chart / Trend Graph / Bar Chart / Scatter Graph etc.

X axis labelled / circle	2m
Y axis labelled / centred	2m
Data presented correctly	2m
Data presented correctly	2m
Cohesion (C)	2m graded (2/1/0)

Diagram / Sketch / Map

1 piece of annotated information	Shown 2m + Named 2m
1 piece of annotated information	Shown 2m + Named 2m
Cohesion (C)	2m graded (2/1/0)

Table

Title	2m
Rows labelled	2m
Columns labelled	2m
Data	2m
Cohesion (C)	2m graded (2/1/0)

PART ONE – SHORT-ANSWER QUESTIONS – 100 MARKS

ANY **TEN** QUESTIONS @ 10 MARKS EACH

Mark **all** questions attempted and award ten questions with highest marks.

Q1.(i)	C	2m	
	B	2m	
	A	2m	
Q.1(ii)	True	2m	
	True	2m	Total 10m
Q.2(i)	C	2m	
	A	2m	
	D	2m	
	B	2m	
Q.2(ii)	Richter Scale/Mercalli or any valid scale	2m	Total 10m
Q.3	D	2m	
	A	2m	
	B	2m	
	E	2m	
	C	2m	Total 10m
Q.4	B	2m	
	D	2m	
	E	2m	
	A	2m	
	C	2m	Total 10m
Q.5(i)	D	2m	
	C	2m	
	A	2m	
	B	2m	
Q.5(ii)	Erosion	2m	Total 10m

Q.6	(i) Cold front	2m	
	(ii) 14 October	1m	
	Azores/South of the Azores	1m	
	(iii) High pressure/anticyclone	2m	
	(iv) Calm and dry	2m	
	(v) Appropriate symbol	2m	Total 10m
Q.7	(i) Galway County	2m	
	(ii) Meath County	2m	
	(iii) 1,118	2m	
	(iv) Waterford County	2m	
	(v) Valid answer	2m	Total 10m
Q.8	(i) February	2m	
	(ii) August	2m	
	(iii) 140 (mm)	2m	
	(iv) 5	2m	
	(v) Rain gauge	2m	Total 10m
Q.9	(i) 1.4km	5m	
	(ii) 597 (m)	5m	Total 10m
Q.10(i)	Viewpoint	2m	
	Parking	2m	
	Crannóg	2m	
Q.10(ii)	North East	2m	
Q.10 (iii)	Appropriate symbol	2m	Total 10m
Q.11	(i) Left middleground	2m	
	(ii) Left foreground	2m	
	(iii) Centre foreground	2m	
	(iv) Left background	2m	
	(v) Right background	2m	Total 10m
Q.12	(i) Italy	2m	
	(ii) Holiday/leisure/recreation	2m	
	(iii) Great Britain	2m	
	(iv) Tertiary	2m	
	(v) Any valid international ferry port and international airport	1m + 1m	Total 10m

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 **(100 marks)**
 - AND**
 - **One** question from Questions 4, 5 and 6 **(100 marks)**
- **ONE** question from **Section 2 – Electives (100 marks)**

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 (Questions 1 to 3)**

AND

ONE from **Regional Geography (Questions 4 to 6)**

All questions carry 100 marks.

PATTERNS AND PROCESSES IN THE PHYSICAL ENVIRONMENT

Questions 1 to 3

Attempt **ONE** question

Question 1

1A. Mass Movement

(i) In your answer book, match each of the photographs **A**, **B**, **C** and **D** with the type of mass movement from the list below that best matches it:

- | | | |
|--------------|----------|-----------|
| • Soil creep | B | 3m |
| • Avalanche | A | 3m |
| • Rock fall | D | 3m |
| • Mudflow. | C | 3m |

(ii) Name **one** example of a fast mass movement process and **one** example of a slow mass movement process.

One valid fast mass movement **3m**

One valid slow mass movement **3m**

(iii) Explain briefly how slope affects the rate of mass movement.

Brief explanation two SRP's @ 3m each **6m**

(iv) Explain briefly how water affects the rate of mass movement.

Brief explanation two SRP's @ 3m each **6m**

Total 30m

1B. Rocks

- (i) Name **one** example of an igneous rock **and** state **one** location where it can be found.

Igneous rock named **3m**
Location **3m**

- (ii) Name **one** example of a metamorphic rock **and** state **one** location where it can be found.

Metamorphic rock named **3m**
Location **3m**

- (iii) Describe and explain how igneous rocks are formed.

or

Describe and explain how metamorphic rocks are formed.

Description/Explanation 6 SRP's @ 3m each **18m**

At least one SRP for explanation.

Allow one SRP for relevant annotated diagram.

Relevant information, additional to the text, given on diagrams can be awarded SRP's.

Total 30m

1C. Volcanoes

- (i) State what is meant by each of the following types of volcano:

- Active volcano
- Extinct volcano
- Dormant volcano.

Three statements @ 4m + 3m + 3m **10m**

Mark to the benefit of the candidate

- (ii) Discuss the **positive** effects of volcanoes.

Discussion 5 SRP's @ 3m each **15m**

- (iii) Discuss the **negative** effects of volcanoes.

Discussion 5 SRP's @ 3m each **15m**

Total 40m

Question 2

2A. Plate Boundaries

(i) In your answer book, match each of the plate boundaries named above with the type of plate movement from the list below most associated with it:

- | | | |
|----------------------------------|-------------------|-----------|
| • Plates pushing together | Convergent | 4m |
| • Plates sliding past each other | Transform | 4m |
| • Plates pulling apart. | Divergent | 4m |

(ii) State what is meant by the term *plate*.

Valid statement **3m**

(iii) Explain briefly how plates move.

Brief explanation two SRP's @3m each **6m**

(iv) At which of the plate boundaries named on the diagram above do ocean ridges form?

Divergent **3m**

(v) At which of the plate boundaries named on the diagram above do fold mountains form?

Convergent **3m**

(vi) Name **one** example of an ocean ridge **or** name **one** example of a range of fold mountains.

Valid example (ocean ridge or range of fold mountains) **3m**

Total 30m

2B. Landform Development

Answer (i) or (ii).

- (i) Explain, with the aid of diagrams, the formation of any **two** landforms.

Formation of any two landforms @ 20m each.

For each landform:

Landform named	1m
Diagram(s) two aspects @ 2m each	4m
Formation explained 5 SRP's @ 3m each	15m

At least one SRP must explain a relevant process.

Allow one SRP for a named example.

Relevant information, additional to the text, given on diagrams can be awarded SRP's.

Total 40m

or

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

Any two processes @ 20m each

For each process:

Process stated	2m
Description / Explanation 6 SRP's @ 3m each	18m

At least one SRP for explanation.

Allow a named example for one SRP.

Allow one SRP for relevant annotated diagram.

Relevant information, additional to the text, given on diagrams can be awarded SRP's.

Total 40m

2C. Human Interaction with the Rock Cycle

Discuss how humans interact with the rock cycle with reference to **one** of the following:

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

Discussion 10 SRP's @ 3m each

30m

Allow one SRP for a named example.

Allow one SRP for relevant annotated diagram.

Relevant information, additional to the text, given on the diagrams can be awarded SRP's.

Positive and negative points can be accepted.

Total 30m

Question 3

3A. Ordnance Survey Map

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

Draw a sketch map of the area shown on the Ordnance Survey map.

On it, **show** and **label** each of the following:

- The entire coastline
- The Drumcliff River
- Glencar Lough
- The area of Cope's Mountain above 200 metres
- The built up area of Sligo.

Sketch Outline:

Limits/Frame	1m
Proportions (Portrait)	2m
Overall Impression	2m graded (2/1/0)
	Sub-total 5m

Five items shown and labelled as follows:

Showing	3m graded (3/1/0)
Labelled	2m
	Sub-total 25m

For an obvious tracing allow 50% of the marks obtained for showing and labelling items and 0m out of 5m for limits, proportion and overall impression.

Total 30m

3B. Karst Landscapes

- (i) Name **one** example of a karst landscape.
Karst landscape named 4m
- (ii) Explain, with the aid of a diagram, how **one surface** feature in a karst landscape was formed.
Feature named 2m
Diagram(s) two aspects @ 2m each 4m
Formation explained 4 SRP's @ 3m each 12m

Relevant information, additional to the text and not already awarded for the diagram can be awarded SRP's.

- (iii) Explain, with the aid of a diagram, how **one underground** feature in a karst landscape was formed.
Feature named 2m
Diagram(s) two aspects @ 2m each 4m
Formation explained 4 SRP's @ 3m each 12m

Relevant information, additional to the text and not already awarded for the diagram can be awarded SRP's.

Total 40m

3C. Human Interaction with Surface Processes

Explain how humans interact with **one** of the following surface processes:

- River processes
- Coastal processes
- Mass movement processes.

Interaction identified 3m
Description / Explanation 9 SRP's @ 3m each 27m

Allow a second interaction identified for one SRP. All further interactions must be examined for SRP's.

At least one SRP for explanation.

Allow one SRP for a named example.

Allow one SRP for relevant annotated diagram.

Relevant information, additional to the text, given on the diagrams can be awarded SRP's.

Positive and negative points can be accepted.

Total 30m

REGIONAL GEOGRAPHY

Questions 4 to 6

Attempt **ONE** question

Question 4

4A. Map Skills

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

On it, **show** and **name** each of the following:

- **Two** named urban areas in this region
- **One** named river in this region
- **One** named area of relief (upland or lowland) in this region.

Outline of Region	6m graded (6/4/2/0)	
Urban area 1	Named	2m
	Shown	4m graded (4/2/0)
Urban area 2	Named	2m
	Shown	4m graded (4/2/0)
River	Named	2m
	Shown	4m graded (4/2/0)
Relief (upland/lowland)	Named	2m
	Shown	4m graded (4/2/0)

Total 30m

4B. Secondary Economic Activity in an Irish Region

Answer each of the following questions with reference to an **Irish** region that you have studied.

- (i) Name **one** example of a secondary economic activity in this region.

Example of secondary economic activity **4m**

- (ii) Explain the advantages that this region has for the development of this secondary economic activity.

Advantages explained 9 SRP's @ 3m each **27m**

Allow a named region for one SRP.

- (iii) Describe **one** challenge faced by this secondary economic activity in this region.

One challenge described 3 SRP's @ 3m each **9m**

Total 40m

4C. Urban Growth in a European Region

Discuss the reasons for the growth of an urban area in a **European** region (**not in Ireland**) that you have studied.

Discussion 10 SRP's @ 3m each **30m**

Allow a named urban area for one SRP.

Total 30m

Question 5

5A. Irish Trade

- (i) The greatest value of Irish fish was exported to which region in 2016?
European Union **3m**
- (ii) Explain briefly **one** reason why the greatest value of Irish fish was exported to this region.
Brief explanation 2 SRP's @ 3m each **6m**
- (iii) The value of Irish fish exports to which region underwent the greatest percentage increase between 2015 and 2016?
Asia **3m**
- (iv) Calculate the difference (in millions of euro), between the value of fish exports to the European Union and the value of fish exports to Nigeria & North Africa in 2015.
300 (million euro) **6m**
- (v) Explain briefly **one** advantage of exports to the Irish economy.
Brief explanation 2 SRP's @ 3m each **6m**
- (vi) State **two** advantages that Ireland has for fishing.
Two advantages stated @ 3m each **6m**
- Total 30m**

5B. Tertiary Economic Activities – European Region

Discuss the development of **two** tertiary economic activities in a **European** region (**not in Ireland**) that you have studied.

- Two activities named @ 3m each** **6m**
- Activity One discussed 4 SRP's @ 3m each** **12m**
Activity Two discussed 4 SRP's @ 3m each **12m**

Allow a named region for one SRP.

Total 30m

5C. Economic Activities – Continental / Sub-Continental Region

Explain any **two** of the following with reference to a **Continental / Sub-Continental** region (**not in Europe**) that you have studied:

- The factors influencing **agriculture** in the region
- The importance of **manufacturing** to the region
- The **reasons** why tourists are attracted to the region.

Activity 1 explained 7 SRP's @ 3m each **21m**

Activity 2 explained 6 SRP's @ 3m each **18m**

Region named **1m**

Total 40m

Question 6

6A. Irish Region

Draw a sketch map of Ireland.

On it, **show** and **name** each of the following:

- **One** named region studied by you
- **One** named area of relief (upland or lowland) in this region
- **One** named river in this region
- **One** named town or city in this region.

Outline of Ireland	6m graded (6/4/2/0)	
Region	Named	2m
	Shown	4m graded (4/2/0)
Relief (upland/lowland)	Named	2m
	Shown	4m graded (4/2/0)
River	Named	2m
	Shown	4m graded (4/2/0)
Town/City	Named	2m
	Shown	4m graded (4/2/0)

Total 30m

6B. Agriculture in a European Region

Answer each of the following questions with reference to a **European** region (**not in Ireland**) that you have studied.

- (i) Name **two** examples of agricultural activity practiced in this region.

Two examples named @ 2m each **4m**

- (ii) Discuss how any **two** of the following factors influence the development of **agriculture** in this region:

- Climate
- Relief and soils
- Markets.

Factor 1 discussed 6 SRP's @ 3m each **18m**

Factor 2 discussed 6 SRP's @ 3m each **18m**

Allow a named region for one SRP.

Total 40m

6C. Concept of a Region

- (i) Name an example of a core region **and** explain why this region is a core region.

Core region named **3m**

Explanation 4 SRP's @ 3m each **12m**

- (ii) Name an example of a peripheral region **and** explain why this region is a peripheral region.

Peripheral region named **3m**

Explanation 4 SRP's @ 3m each **12m**

Total 30m

SECTION 2 - ELECTIVES

Questions 7 to 12

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

Patterns and Processes in Economic Activities (Questions 7, 8 and 9)

OR

Patterns and Processes in the Human Environment (Questions 10, 11 and 12)

All questions carry 100 marks.

PATTERNS AND PROCESSES IN ECONOMIC ACTIVITIES

Questions 7 to 9

Question 7

7A. Economic Activity – The Environment

Ireland: Projected Greenhouse Gas Emissions 2020

Sources of Emissions	Percentage
Transport	29%
Industry and Commercial	7%
Residential	12%
Agriculture	47%
Other	5%

Amended from [www. environ.ie](http://www.environ.ie)

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

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

Graph paper	3m
Vertical axis labelled/Circle	3m graded (3/1/0)
Horizontal axis labelled/Centred	3m graded (3/1/0)
5 items @ 3m each graded (3/1/0)	15m
	Sub-total 24m

- (ii) In your answer book, state **two** ways that greenhouse gas emissions can be reduced.

Two valid statements @ 3m each	6m
---------------------------------------	-----------

Total 30m

7B. Economic Development – Developed Economy

- (i) Name **one** example of a developed economy that you have studied.
Developed economy named **4m**
- (ii) Explain the reasons for the growth of mass tourism **or** footloose industry in the developed economy named by you in part (i) above.
Explanation 6 SRP's @ 3m each **18m**
- (iii) Explain **one** benefit of mass tourism **or** footloose industry for developed economies.
Explanation 3 SRP's @ 3m each **9m**
- (iv) Explain **one** problem caused by mass tourism **or** footloose industry.
Explanation 3 SRP's @ 3m each **9m**
- Total 40m**

7C. Economic Activity and Conflict

- (i) Name **one** example of how the development of economic activities has resulted in conflict arising between people.
Example named **3m**
- (ii) Describe and explain this conflict.
Description/Explanation 9 SRP's @ 3m each **27m**
At least one SRP for explanation.
- Total 30m**

Question 8

8A. Human Development Index

- (i) Name the **two** countries with the highest Human Development Indices.
- | | |
|----------------|-----------|
| Ireland | 3m |
| USA | 3m |
- (ii) Calculate the difference between the gross national income per capita in Ireland and in France (in \$).
- | | |
|-------------------|-----------|
| 5,713 (\$) | 6m |
|-------------------|-----------|
- (iii) Explain briefly **one** reason why life expectancy at birth is higher in some countries.
- | | |
|--|-----------|
| Brief explanation 2 SRP's @ 3m each | 6m |
|--|-----------|
- (iv) State **two** reasons why some countries have a lower HDI than other countries.
- | | |
|-------------------------------------|-----------|
| Two reasons stated @ 3m each | 6m |
|-------------------------------------|-----------|
- (v) The three countries with the highest number of expected years in school are the three countries with the highest Gross National Income.
Explain briefly **one** reason why there may be a link between these two factors.
- | | |
|--|-----------|
| Brief explanation 2 SRP's @ 3m each | 6m |
|--|-----------|

Total 30m

8B. Economic Activity – Aerial Photograph

Examine the aerial photograph of Sligo accompanying this paper.

It is proposed to build a computer factory in the **centre background** of the aerial photograph.

- (i) Describe and explain the advantages of this location.

Description/Explanation 5 SRP's @ 3m each **15m**

At least one SRP for explanation.

- (ii) Describe and explain the disadvantages of this location.

Description/Explanation 5 SRP's @ 3m each **15m**

At least one SRP for explanation.

- (iii) Using accepted notation, suggest an alternative location for the new computer factory **and** explain briefly **one** reason why you chose this alternative location.

Valid accepted notation for location **4m**

Brief explanation 2 SRP's @ 3m each **6m**

Total 40m

8C. Renewable Energy

- (i) Name **two** examples of renewable energy.

Two valid examples @ 3m each **6m**

- (ii) Discuss the advantages **and** disadvantages of renewable energy.

Discussion 8 SRP's @ 3m each **24m**

At least one SRP for an advantage and at least one SRP for a disadvantage.

Total 30m

Question 9

9A. Ordnance Survey Map

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

Draw a sketch map of the area shown on the Ordnance Survey map.

On it, **show** and **label** each of the following:

- The N15
- The N16
- The R291
- The railway line
- The built up area of Sligo north of the Garvoige River.

Sketch Outline:

Limits/Frame	1m
Proportions (portrait)	2m
Overall Impression	2m graded (2/1/0)
	Sub-total 5m

Five items shown and labelled as follows:

Showing	3m graded (3/1/0)
Labelled	2m
	Sub-total 25m

For an obvious tracing allow 50% of the marks obtained for showing and labelling items and 0m out of 5m for limits, proportion and overall impression.

Total 30m

9B. European Union Policies

- (i) Name any **two** European Union policies.
Two policies named @ 2m each **4m**
- (ii) Discuss the **positive** impacts of European Union policies.
Discussion 5 SRP's @ 3m each **15m**
- (iii) Discuss the **negative** impacts of European Union policies.
Discussion 5 SRP's @ 3m each **15m**
- (iv) State **two** potential challenges facing the European Union in the future.
Two challenges stated @ 3m each **6m**
- Total 40m**

9C. Multinational Company (MNC)

- (i) Name **one** multinational company located in Ireland that you have studied.
MNC named **3m**
- (ii) State where this multinational company is located in Ireland.
Location **3m**
- (iii) Name **two** markets outside Ireland where this multinational company sells its products.
Two markets named @ 3m each **6m**
- (iv) Explain why this multinational company may decide to relocate to another country.
Explanation 6 SRP's @ 3m each **18m**
- Total 30m**

PATTERNS AND PROCESSES IN THE HUMAN ENVIRONMENT

Questions 10 to 12

Question 10

10A. Aerial Photograph

Examine the aerial photograph of Sligo accompanying this paper.

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

On it, **show** and **label** each of the following:

- The river
- A bridge
- **Two** connecting streets
- A car park in the centre foreground
- A sports field in the right background.

Sketch Outline:

Limits/Frame	1m
Proportions (landscape)	2m
Overall impression	2m graded (2/1/0)
	Sub-total 5m

Five items shown and labelled as follows:

Showing	3m graded (3/1/0)
Labelled	2m
	Sub-total 25m

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

Total 30m

10B. Urban Land-Use

- (i) Name **one** urban area that you have studied **and** name any **two** land-uses in this urban area.

Urban area named **3m**
Two land-uses named @ 3m each **6m**

- (ii) Describe and explain how land-use in this urban area has changed over time.

Description / Explanation 7 SRP's @ 3m each **21m**
At least one SRP for explanation.

Total 30m

10C. Migration – Ireland

Migration takes place due to push factors and pull factors.

- (i) Name **one** push factor and **one** pull factor associated with migration in Ireland.

Push factor named **2m**
Pull factor named **2m**

- (ii) Discuss the positive impacts of migration on Ireland.

Discussion 6 SRP's @ 3m each **18m**

- (iii) Discuss the negative impacts of migration on Ireland.

Discussion 6 SRP's @ 3m each **18m**

Total 40m

Question 11

11A. Traffic

- (i) What was the total number of people who crossed the canals while entering Dublin city centre in 2016?
202,001 **3m**
- (ii) Calculate the total number of people who crossed the canals by bicycle and walking combined while entering Dublin city centre in 2016.
33,562 **6m**
- (iii) Name **two** examples of public transport available in cities such as Dublin.
Two valid examples @ 3m each **6m**
- (iv) For which **two** modes of transport was there an increase in the number of people using them, who crossed the canals while entering Dublin city centre between 2006 and 2016?
Walking and cycling @ 3m each **6m**
- (v) Explain briefly **one** reason for the increase in these two modes of transport.
Brief explanation 2 SRP's @ 3m each **6m**
- (vi) Suggest **one** reason why there was a decrease in the number of people who crossed the canals while entering Dublin city centre between 2006 and 2010.
One reason suggested **3m**

Total 30m

11B. Population

By the year 2031, there will be nearly one million people over the age of 65 in Ireland. That will have been an increase of more than 86% since 2016. Amended from journal.ie

Discuss the challenges associated with an ageing population **and** how this ageing population can be planned for.

Discussion 10 SRP's @ 3m each **30m**

**At least one SRP must refer to the challenges associated with an ageing population.
At least one SRP must refer to how this ageing population can be planned for.**

Total 30m

11C. Settlement Distribution

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

- (i) Give a grid reference for an area on the map where there is an **absence** of settlement.

Grid reference **2m**

- (ii) Explain in detail, using evidence from the map, why there is an **absence** of settlement at this location.

Explanation 6 SRP's @ 3m each **18m**

- (iii) Give a grid reference for an area on the map which has a relatively **high** density of settlement.

Grid reference **2m**

- (iv) Explain in detail, using evidence from the map, why there is a relatively **high** density of settlement at this location.

Explanation 6 SRP's @ 3m each **18m**

Total 40m

Question 12

12A. Migration

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

Graph paper	3m
Vertical axis labelled/Circle	3m graded (3/1/0)
Horizontal axis labelled/Centred	3m graded (3/1/0)
5 items @ 3m each graded (3/1/0)	15m
	Sub-total 24m

- (ii) Explain briefly **one** reason why people seek asylum in other countries.
Brief explanation 2 SRP's @ 3m each **6m**

Total 30m

12B. Urban Development

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

Describe and explain **three** reasons why the town of Sligo developed at this location, using evidence from the Ordnance Survey map to support each reason.

Three reasons @ 10m each as follows:

For each reason:

Ordnance Survey map evidence	1m
Description / Explanation 3 SRP's @ 3m each	9m

At least one SRP for explanation.

Total 30m

12C. Urban Problems

Problems can develop as a result of the growth of urban areas.

Discuss any **three** of the following problems with reference to any urban area(s) that you have studied:

- Traffic congestion
- Urban decay
- Urban sprawl
- Environmental quality.

Three problems discussed as follows:

First problem discussed 5 SRP's @ 3m each	15m
Second problem discussed 4 SRP's @ 3m each	12m
Third problem discussed 4 SRP's @ 3m each	12m
Urban area named	1m

Total 40m

Appendix 1

List of Geographical Investigation Topics 2018

1. The impact of land-use on pattern development in a rural or urban setting.
2. Demographic change in a local setting.
3. An investigation of a local environmental issue.
4. The changing economic landscape in a rural or urban setting.
5. Test the hypothesis that geomorphic processes of erosion shape the landscape in a fluvial, coastal or glacial environment with reference to **one** specific landform.
6. The impact of geomorphic processes on the surface landscape in a karst environment.

Appendix 2



Coimisiún na Scrúduithe Stáit

Marcanna Breise as ucht freagairt trí Ghaeilge

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

N.B. Ba chóir marcanna de réir an ghnáthrata a bhronnadh ar iarrthóirí nach ghnóthaíonn níos mó ná 75% d'iomlán na marcanna don scrúdú. Ba chóir freisin an marc bónais sin **a shlánú síos**.

Tábla 400 @ 10%

Bain úsáid as an tábla seo i gcás na n-ábhar a bhfuil 400 marc san iomlán ag gabháil leo agus inarb é 10% gnáthrata an bhónais.

Bain úsáid as an ngnáthrata i gcás 300 marc agus faoina bhun sin. Os cionn an mharc 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.

Blank Page

Blank Page

Blank Page

