



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate 2022

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.

The table below contains information about annotations used for marking throughout the exam paper.

For certain questions where other annotations are used, these are listed after the marking scheme for the relevant question.

Annotation	Use	Marks (if applicable)
	Valid information	1
	Valid information	2
	Valid information	3
	Valid information	4
	Valid information	5
	Valid information	6
	Surplus information	N/A
	Incorrect answer	0
	Significant part of answer	N/A
	Page seen by examiner / Information not valid	N/A
 /  / 	Valid example / name / reference	3
 /  / 	Annotations relate to point 1 / point 2 / point 3	N/A
	Valid diagram	3

The table below contains information about annotations used for marking the Geographical Investigation.

Annotation	Use	Marks (if applicable)
 /  / 	Valid issue / example of recording / observation	2

Geographical Investigation- Core Unit 3

(Please refer to Appendix 1 for Topics List)

1. Introduction

4 SRP's @ 1m each

Conformity with prescribed length – 1m

Total marks 5

2. Planning

4 SRP's @ 1m each

Conformity with prescribed length – 1m

Total marks 5

3. Gathering of Data

Two Methods/Tasks @ 18m each

Each method/task – 9 SRP's @ 2m each

36m

Allow one SRP for diagram for each Method/Task.

Coherence – 2m graded (2/1/0)

Conformity with prescribed length 2m

4m

Total marks 40

4. Results, Conclusions, Evaluation

Three headings @ 8m each

Each heading: 4 SRP's @ 2m each

24m

Coherence – 4m graded (4/2/0)

Conformity with prescribed length 2m

6m

Total marks 30

5. Organisation and Presentation of Results

Two different methods of presentation.

Each presentation: 5 SRP's @ 2m each

Total marks 20

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
Overall impression	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
Overall impression	2m graded (2/1/0)

Table

Title	2m
Rows labelled	2m
Columns labelled	2m
Data	2m
Overall impression	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)	False		2m		
Q.1 (iii)	True		2m		Total 10m
Q.2 (i)	A	Q.2 (ii) (Erosion)	2m		
	C	Deposition	2m+ 2m		
	B	(Deposition)	2m		
	(D)	Erosion	2m		Total 10m
Q.3	E		2m		
	D		2m		
	C		2m		
	B		2m		
	A		2m		Total 10m
Q.4	D		2m		
	A		2m		
	B		2m		
	C		2m		
	E		2m		Total 10m
Q.5 (i)	B		2m		
	D		2m		
	C		2m		
	A		2m		
(ii)	False		2m		Total 10m
Q.6 (i)	B		2m		
	A		2m		
	D		2m		
	C		2m		
(ii)	D		2m		Total 10m

Q.7 (i)	Castle	2m	
	18hole golf	2m	
	Parking	2m	
(ii)	Correctly drawn symbol	2m	
(iii)	S 205 234	2m	Total 10m
Q.8 (i)	South east	5m	
(ii)	4.3km	5m	Total 10m
Q.9 (i)	True	2m	
(ii)	True	2m	
(iii)	False	2m	
(iv)	True	2m	
(v)	False	2m	Total 10m
Q.10 (i)	B	2m	
	D	2m	
	A	2m	
	C	2m	
(ii)	Depression	2m	Total 10m
Q.11 (i)	13(%)	2m	
(ii)	Germany	2m	
(iii)	4(%)	2m	
(iv)	UK/Belgium/Switzerland	2m	
(v)	One valid product named	2m	Total 10m
Q.12	21.7(m)	2m	
	Tokyo	2m	
	Beijing and Dhaka	2m+ 2m	
	Urban	2m	Total 10m

SECTION 1
PATTERNS AND PROCESSES IN THE PHYSICAL ENVIRONMENT

Questions 1 to 3

All questions carry 100 marks.

Question 1

1A. 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 River Suir
- The triangulation pillar at Lachtnafrankee
- A viewpoint
- The railway line
- An area of coniferous plantation in the south west of the map.

[30m]

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 the marks obtained for showing and labelling items and 0m out of 5m for limits, proportion and overall impression.

Total 30m

1B. 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

1C. Plate Tectonics

- (i) Name **one** example of a tectonic plate.

Tectonic plate named **3m**

- (ii) Describe and explain what happens at plate boundaries.

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

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

Question 2

2A. Mass Movement

Bogburst in Donegal

A bogburst in Co. Donegal is being classed as a 'serious pollution event' after hundreds of thousands of tonnes of peat and forestry crashed down a hillside polluting a local river.

Authorities are working to discover the cause of the bogburst at an area near Ballybofey. Local residents said they believed recent construction activity at the nearby Meenbog Windfarm played a significant role in triggering the mass movement event.

Meenbog Windfarm is owned by Invis Energy and is working with global retail firm Amazon, to supply energy to their worldwide data centres.



Aftermath of the bogburst near Ballybofey, Co. Donegal

Amended from www.irishindependent.ie

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

- (i) In what county did the bogburst take place?
Donegal **3m**
- (ii) What did local residents believe was the cause of the bogburst?
Recent construction activity at a nearby wind farm **3m**
- (iii) Name **one** impact of the bogburst mentioned in the article.
River pollution **3m**
- (iv) What is the energy generated at the windfarm being used for?
Supply energy to worldwide data centres **3m**
- (v) In your answerbook, state whether each the following types of mass movement processes are fast **or** slow.
- Avalanche **Fast** **3m**
 - Soil creep **Slow** **3m**
 - Mudflow **Fast** **3m**
 - Rockfall. **Fast** **3m**
- (vi) Explain briefly **one** factor that influences mass movement, other than human activity.
Brief explanation two SRP's @ 3m each **6m**

Total 30m

2B. Human Interaction with Surface Processes

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

- River processes
- Coastal processes
- Mass movement.

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

Allow a second interaction identified for one SRP.

All further interactions must be explained for SRP's.

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 interpretation can be accepted.

Total 30m

2C. Rocks



www.quarriesandbeyond.org, www.collinsdictionary.com and www.flickr.com

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

- | | |
|----------------------|-----------|
| • B Sandstone | 3m |
| • C Limestone | 3m |
| • A Marble | 3m |

- (ii) State **two** ways in which rocks are used.

Two valid ways stated	3m + 3m
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- (iii) Name **and** give the location of **one** igneous rock.

One valid rock named	4m
One valid location named	3m

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

Description/Explanation 6 SRP's @ 3m each	18m
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At least one SRP for explanation.

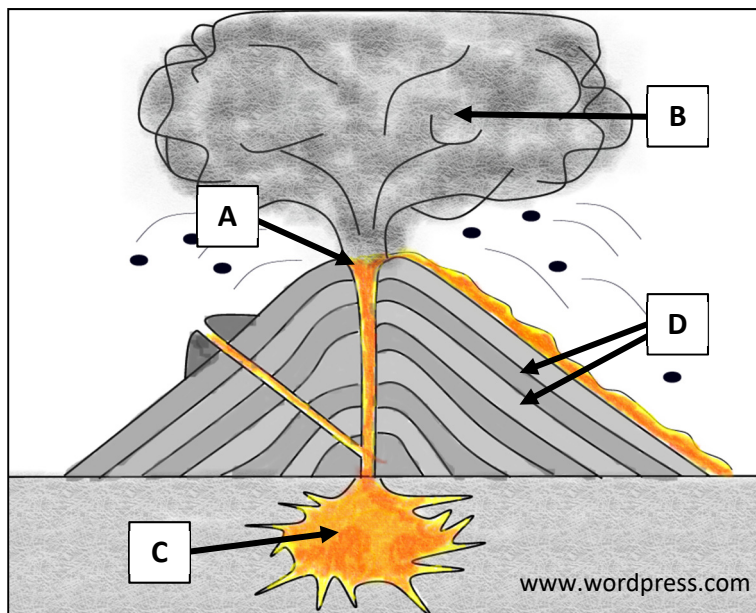
Allow one SRP for relevant annotated diagram.

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

Total 40m

Question 3

3A. Volcanic Activity



Examine the diagram above showing a volcanic eruption and answer each of the following questions.

- (i) In your answer book use each of the terms in the list below to name the features labelled **A**, **B**, **C** and **D** on the diagram above.
- | | |
|-----------------------------------|-----------|
| • C Magma chamber | 3m |
| • A Crater | 3m |
| • D Layers of ash and rock | 3m |
| • B Ash cloud. | 3m |
- (ii) In your answer book, state if the volcano shown above is active, dormant or extinct?
- | | |
|---------------|-----------|
| Active | 3m |
|---------------|-----------|
- (iii) Name **one** example of a volcano that you have studied.
- | | |
|----------------------------|-----------|
| Valid example named | 3m |
|----------------------------|-----------|
- (iv) List **two** positive effects of volcanoes.
- | | |
|---------------------------------|--------------|
| Two valid effects listed | 3m+3m |
|---------------------------------|--------------|
- (v) Explain briefly **one** negative effect of volcanoes.
- | | |
|--|-----------|
| Brief explanation two SRP's @ 3m each | 6m |
|--|-----------|

Total 30m

3B. Weathering

- (i) Name any **two** factors that influence weathering.
Two valid factors named **2m + 2m**

- (ii) Describe and explain any **two** of the following types of weathering:
- Onion weathering
 - Carbonation
 - Freeze-thaw action.

Two descriptions / explanations @18m each

For each weathering type:

Description/Explanation 6 SRP's @ 3m each **36m**

For each type of weathering:

Allow one SRP for a named example/location.

At least one SRP for explanation.

Allow one SRP for relevant annotated diagram.

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

Total 40m

3C. Human Interaction with the Rock Cycle

Describe and explain how humans interact with the rock cycle with reference to **one** of the following:

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

Description / explanation 10 SRP's @ 3m each **30m**

Allow one SRP for a named example.

At least one SRP for explanation.

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 interpretation can be accepted.

Total 30m

SECTION 2

REGIONAL GEOGRAPHY

Questions 4 to 6

All questions carry 100 marks.

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:

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

Outline of Region	6m graded (6/4/2/0)	
River:	Named	2m
	Shown	4m graded (4/2/0)
Relief (upland/lowland):	Named	2m
	Shown	4m graded (4/2/0)
Town/City 1:	Named	2m
	Shown	4m graded (4/2/0)
Town/City 2:	Named	2m
	Shown	4m graded (4/2/0)
Total 30m		

4B. Agriculture – Irish Region

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

- (i) Name **two** types of agriculture practised in this region.

Two valid types named **2m+2m**

- (ii) Explain the advantages that this region has for the development of agriculture.

Explanation 9 SRP's @ 3m each **27m**
Allow a named region for one SRP.

- (iii) Describe **one** challenge faced by agriculture in this region.

Description 3 SRP's @ 3m each

9m

Total 40m

4C. Secondary Economic Activity 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 **one** example of a secondary economic activity in this region.

One valid example named

3m

- (ii) Describe and explain the development of manufacturing industry in this region.

Description/explanation 9 SRP's @ 3m each

27m

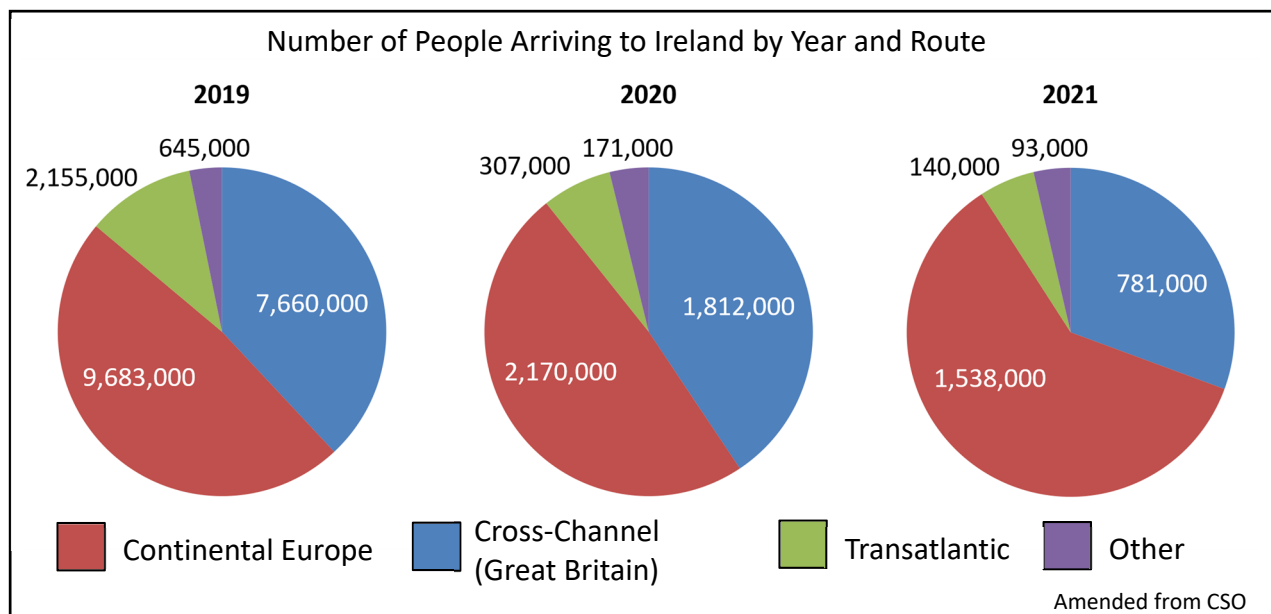
Allow a named region for one SRP.

At least one SRP for explanation.

Total 30m

Question 5

5A. Tertiary Economic Activity



Examine the pie charts above which show the number of people arriving to Ireland by different routes in 2019, 2020 and 2021. Answer each of the following questions.

- (i) How many people travelled to Ireland by a transatlantic route in 2019?
2,155,000 **3m**
- (ii) In which year did 2,170,000 people travel to Ireland from Continental Europe?
2020 **3m**
- (iii) Which route was used by 781,000 people to travel to Ireland in 2021.
Cross-Channel (UK) **3m**
- (iv) Calculate the total number of people travelling to Ireland in 2021.
2,552,000 **6m**
- (v) Name **one** airport or seaport in Ireland.
One valid airport or seaport named **3m**
- (vi) Explain briefly **one** reason why the number of arrivals into Ireland are lower in 2020 and 2021 than in 2019.
Brief explanation two SRP's @ 3m each **6m**
- (vii) Explain **one** challenge that results from less tourists visiting Ireland.
Brief explanation two SRP's @ 3m each **6m**

Total 30m

5B. 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

5C. Characteristics of Regions

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

Valid core region named **3m**

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

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

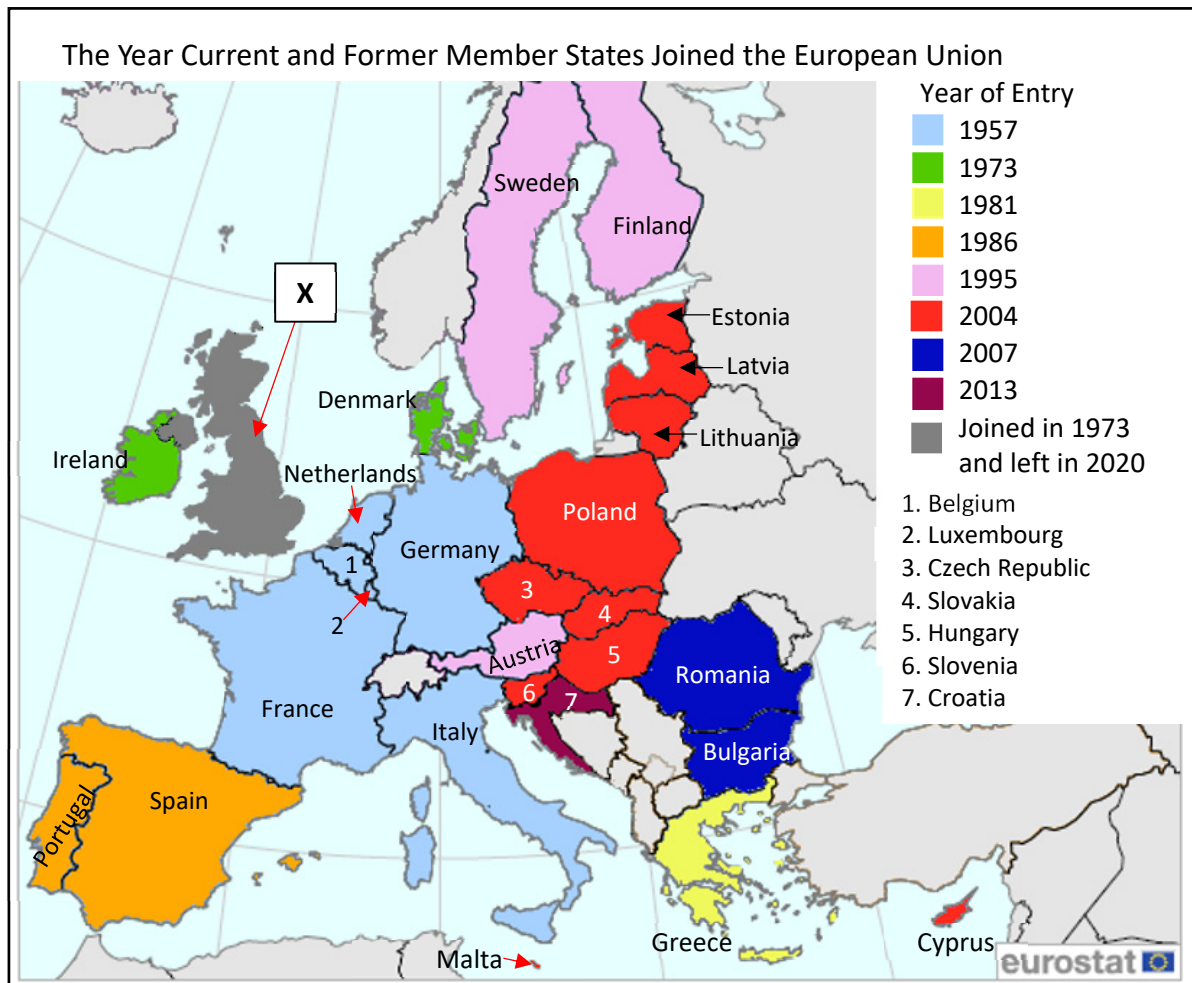
Valid peripheral region named **3m**

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

Total 30m

Question 6

6A. European Union



- In what year did Portugal and Spain join the European Union?
1986 **3m**
- How many countries joined the European Union in 1995?
Three **3m**
- Which country joined the European Union the same year as Romania?
Bulgaria **3m**
- Name **two** countries that joined the European Union in 2004.
Two valid countries named **3m + 3m**
- Explain briefly **one** advantage of membership of the European Union.
Brief explanation two SRP's @ 3m each **6m**
- Which country, labelled **X** on the map, left the European Union in 2020?
United Kingdom **3m**
- Explain briefly **one** challenge facing member states of the European Union.
Brief explanation two SRP's @ 3m each **6m**

Total 30m

6B. Urban Regions

Describe and explain the reasons for the growth of any **one** urban area that you have studied.

Description/explanation 10 SRP's @ 3m each

At least one SRP for explanation.

Allow an urban area named for one SRP.

Total 30m

6C. Tourism in an Irish Region

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

- (i) Name **two** tourist attractions in this region.

Two valid attractions named

2m+2m

- (ii) Explain the reasons why tourists are attracted to this region.

Explanation 9 SRP's @ 3m each

27m

Allow a named region for one SRP.

- (iii) Describe **one** problem associated with tourism in this region.

Description 3 SRP's @ 3m each

9m

Total 40m

SECTION 3 – ELECTIVES

Questions 7 to 12

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

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. Aerial Photograph

Examine the aerial photograph of Clonmel 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 right middleground
- An industrial building in the centre foreground.

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

7B. Fossil Fuels

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

Two valid fossil fuels named **3m+3m**

- (ii) Describe and explain the impact of burning fossil fuels on the environment.

Impact Identified 1 SRP **3m**

Description/explanation 7 SRP's @ 3m each **21m**

Allow a second impact identified for one SRP.

At least one SRP for explanation.

Total 30m

7C. Developed Economy

- (i) Name **one** developed economy where tourism **or** financial services contribute to that economy.

Developed economy named **4m**

- (ii) Explain the reasons for the growth of tourism **or** financial services in the developed economy named in part (i) above.

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

- (iii) Explain **one** benefit that tourism **or** financial services bring to the economy of developed countries.

Explanation 3 SRP's @ 3m each **9m**

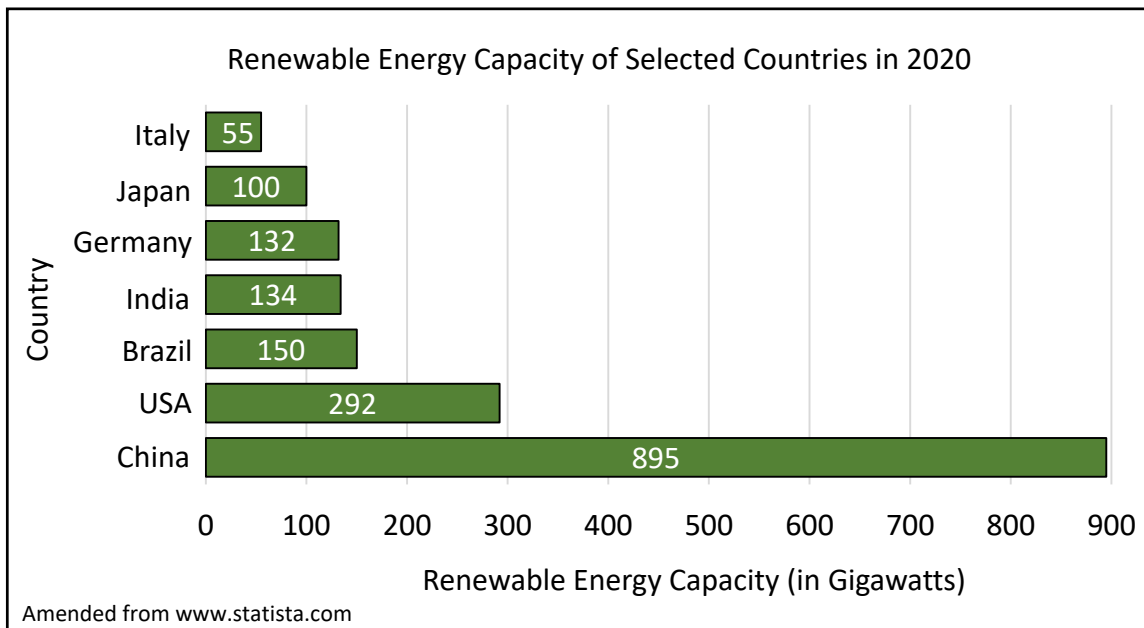
- (iv) Explain **one** problem caused by tourism **or** financial services.

Explanation 3 SRP's @ 3m each **9m**

Total 40m

Question 8

8A. Renewable Energy



Examine the bar chart above showing the renewable energy capacity for selected countries in 2020 and answer each of the following questions.

- (i) What was the renewable energy capacity, in gigawatts, for India in 2020?
134 (gigawatts) **3m**
- (ii) Which country from the chart above had the largest renewable energy capacity in 2020?
China **3m**
- (iii) Calculate the total renewable energy capacity, in gigawatts, for China, the US and Brazil combined.
1,337 (gigawatts) **6m**
- (iv) Name **two** sources of renewable energy.
Two valid sources named **3m+3m**
- (v) Briefly explain **two** reasons why countries are investing more in renewable energy.
Reason 1 - Brief explanation two SRP's @ 3m each **6m**
Reason 2 - Brief explanation two SRP's @ 3m each **6m**

Total 30m

8B. Economic Activity and Conflict

- (i) Name **one** example of how the development of economic activities has resulted in conflict arising between people.

Valid example named **3m**

- (ii) Describe and explain this conflict.

Description and explanation 9 SRP's @ 3m each **27m**

At least one SRP for explanation.

Total 30m

8C. Economic Activity – Ordnance Survey Map

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

Imagine you have been given the task of finding a suitable location for a new large hotel within the area covered by the map.

- (i) State, using a six-figure grid reference, where you would locate the hotel.

Six-figure grid reference **4m graded (4/2/0)**

- (ii) Explain the reasons why you chose this location.

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

- (iii) Describe **one** disadvantage of locating the hotel at this location.

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

Total 40m

Question 9

9A. Economic Development

Gross National Product (GNP)
in Selected Countries in 2020

Country	GNP (\$US trillion)
USA	20
China	13
Japan	5
Germany	4
UK	3

Amended from www.worldpopulationreview.com

Examine the table above showing the gross national product (GNP) for selected countries in 2020. 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) Explain briefly **one** advantage of a country having a high gross national product.

Brief explanation 2 SRP's @ 3m each

6m

Total 30m

9B. Multinational Company

- (i) Name **one** multinational company located in Ireland that you have studied **and** name **one** product that it manufactures.

Valid MNC named

4m

Valid product named

3m

- (ii) State where this multinational company is located in Ireland **and** explain why it set up at this location.

Valid location

3m

Explanation 7 SRP's @ 3m each

21m

- (iii) Explain **one** reason why this multinational company might decide to locate to another country.

Explanation 3 SRP's @ 3m each

9m

Total 40m

9C. Ireland and the European Union

- (i) Name any **one** European Union policy which affects Ireland's economy.

Valid policy named **3m**

- (ii) Describe and explain the effects of this policy on Ireland's economy.

Effect Identified 1 SRP **3m**

Description and explanation 8 SRP's @ 3m each **24m**

Allow a second effect identified for one SRP.

At least one SRP for explanation.

Total 30m

PATTERNS AND PROCESSES IN THE HUMAN ENVIRONMENT

Questions 10 to 12

Question 10

10A. Traffic Congestion

Traffic Congestion Levels for a Number of European Cities 2020

European City	Congestion Level
Dublin	38%
London	31%
Lisbon	23%
Copenhagen	18%
Madrid	15%

Amended from www.tomtom.com

Examine the table above showing the traffic congestion level for a number of European cities in 2020. 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, explain briefly **one** reason why Dublin experiences high levels of traffic congestion.

Brief explanation 2 SRP's @ 3m each

6m

Total 30m

10B. Migration – Ireland

- (i) Describe and explain the reasons why people in Ireland migrate from rural areas to cities, using examples you have studied.

Reasons **2m+2m**

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

At least one SRP for explanation

- (ii) Explain **one** effect rural to urban migration has on rural areas.

Explanation 3 SRP's @ 3m each **9m**

- (iii) Explain **one** barrier to migration.

Explanation 3 SRP's @ 3m each **9m**

Total 40m

10C. Development of Towns

Using evidence from the aerial photograph accompanying this paper, explain **three** reasons why the town of Clonmel developed at its present location.

Three reasons @ 10m each **30m**

For each reason:

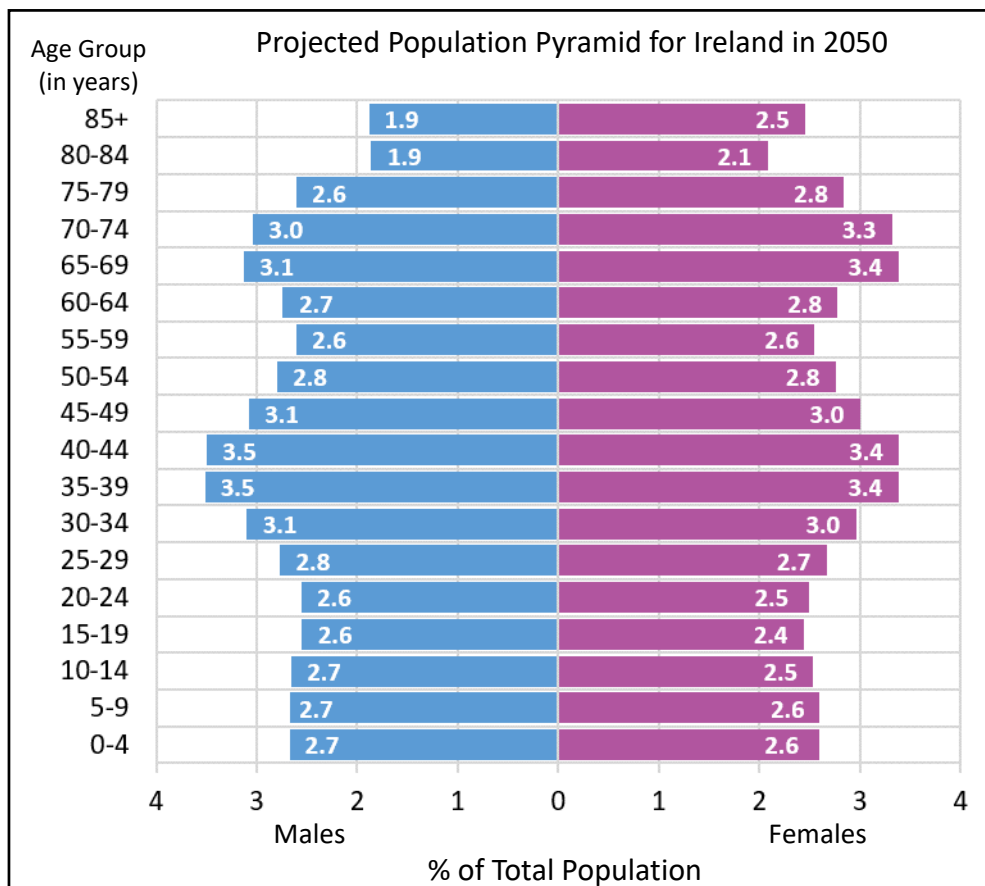
Aerial photograph evidence **1m**

Explanation 3 SRP's @ 3m each **9m**

Total 30m

Question 11

11A. Population Dynamics



Amended from www.populationpyramid.net

Examine the population pyramid above showing the projected population structure for Ireland in 2050. Answer each of the following questions.

- (i) What percentage of females are projected to be aged 20-24?
2.5(%) **3m**
- (ii) Is there projected to be more males or females aged 85+?
Females **3m**
- (iii) What percentage of the total population in the 0-4 age group is projected to be male?
2.7(%) **3m**
- (iv) Calculate the percentage of the total population that is projected to be aged 65-69.
6.5(%) **6m**
- (v) State **one** way that population pyramids are used.
One valid way stated **3m**
- (vi) Explain briefly **one** reason why people in Ireland have a long-life expectancy.
Brief explanation 2 SRP's @ 3m each **6m**
- (vii) Explain briefly **one** way the shape of a population pyramid for a developed country differs from the shape of a population pyramid for a developing country.
Brief explanation 2 SRP's @ 3m each **6m** **Total 30m**

11B. Developing World City

- (i) Name **one** city in the developing world that is growing rapidly.
Valid developing world city named **4m**
- (ii) Explain **one** reason for the rapid growth of the city named by you in part (i) above.
Explanation 3 SRP's @ 3m each **9m**
- (iii) Describe and explain any **three** problems associated with the rapid growth of this developing world city.
Three problems @ 9m each
For each problem:
Description/explanation 3 SRP's @ 3m each **27m**
At least one SRP for explanation
- Total 40m**

11C. Historic Settlement

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

- (i) Name **and** give a six-figure grid reference for the location of **three** different examples of historic settlement evident on the Ordnance Survey map.
3 settlements named @ 2 marks each **6m**
- | | |
|---------------------------|-----------|
| Settlement 1 named | 2m |
| Settlement 2 named | 2m |
| Settlement 3 named | 2m |
- 3 settlements located @ 2 marks each graded (2/1/0)** **6 marks**
- | | |
|-------------------------|---------------|
| Location 1 named | 2/1/0m |
| Location 2 named | 2/1/0m |
| Location 3 named | 2/1/0m |
- (ii) Describe each of the three historic settlements named in part (i) above.
For each historic settlement:
Description: 2 SRP's @ 3 marks each **18 marks**
- Total 30m**

Question 12

12A. Aerial Photograph

Examine the aerial photograph of Clonmel 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
- A recreational area
- A church in the right foreground
- An area of terraced housing in the centre foreground.

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

12B. Population Dynamics

‘Population change is influenced by many factors including income levels, culture and society and medical technology.’

Describe and explain the factors that influence population change.

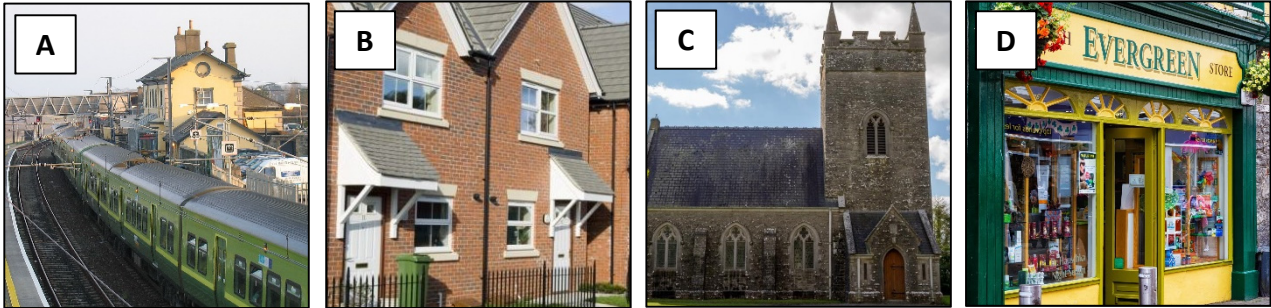
Description/explanation 10 SRP's @ 3m each **30m**

At least one SRP for explanation.

Allow an additional factor named for one SRP.

Total 30m

12C. Urban functions



Amended from www.en.wikipedia.org, www.joe.ie, www.discoverboynevalley.ie, www.forecourtretailer.com

- (i) Examine the photographs of different buildings labelled **A**, **B**, **C** and **D** shown above and match each of the letters on the photograph with the urban function listed below that best matches it.

Write your answer in your answer book.

- | | |
|------------------------|-----------|
| • B Residential | 3m |
| • D Commercial | 3m |
| • A Transport | 3m |
| • C Religious | 3m |

- (ii) "The functions of urban areas change over time."

Discuss this statement with reference to any urban area studied by you.

Valid urban area named **4m**

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

Total 40m

Appendix 1

List of Geographical Investigation Topics 2022

1. An investigation of the impact of geology on shaping the landscape in a local area.
2. Population change in an urban or rural area.
3. Pollution – A local study.
4. A study of local weather patterns.
5. Investigate the impact of land-use on traffic patterns in a local area.
6. Investigate the impact of the geomorphic process(es) of transport and/or deposition on shaping the landscape in a coastal or fluvial or glacial 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 ghnáthráta 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 320 @ 10%

Bain úsáid as an tábla seo i gcás na n-ábhar a bhfuil 320 marc san iomlán ag gabháil leo agus inarb é 10% gnáthráta an bhónais.

Bain úsáid as an ngnáthráta i gcás 240 marc agus faoina bhun sin. Os cionn an mharc sin, féach an tábla thíos.

Bunmharc	Marc Bónais
241 - 243	23
244 - 246	22
247 - 250	21
251 - 253	20
254 - 256	19
257 - 260	18
261 - 263	17
264 - 266	16
267 - 270	15
271 - 273	14
274 - 276	13
277 - 280	12

Bunmharc	Marc Bónais
281 - 283	11
284 - 286	10
287 - 290	9
291 - 293	8
294 - 296	7
297 - 300	6
301 - 303	5
304 - 306	4
307 - 310	3
311 - 313	2
314 - 316	1
317 - 320	0

Geographical Investigation – Not included in total for bonus marks

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

