



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate 2021

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

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)	B		2m	
	D		2m	
	A		2m	
	C		2m	
Q.1 (ii)	Any valid location		2m	Total 10m
Q.2 (i)	D	Q.2 (ii) (Erosion)	2m	
	A	Deposition	2m + 2m	
	B	(Erosion)	2m	
	(C)	Erosion	2m	Total 10m
Q.3 (i)	A	Q.3 (ii) (Fast)	2m	
	D	Slow	2m + 2m	
	C	(Fast)	2m	
	(B)	Fast	2m	Total 10m
Q.4	B		2m	
	C		2m	
	E		2m	
	D		2m	
	A		2m	Total 10m
Q.5	B		2m	
	D		2m	
	C		2m	
	A		2m	
	E		2m	Total 10m
Q.6 (i)	108 km ²		5m	
(ii)	5.0 km		5m	Total 10m

Q.7 (i)	Castle	2m	
	Crannog	2m	
	Cillín	2m	
(ii)	Mixed woodland	2m	
(iii)	Correctly drawn symbol	2m	Total 10m
Q.8 (i)	Right background	2m	
	Left middleground	2m	
	Centre middleground	2m	
	Right middleground	2m	
(ii)	Oblique	2m	Total 10m
Q.9 (i)	971 (hectopascals/millibars)	2m	
(ii)	False	2m	
(iii)	High pressure	2m	
(iv)	Correctly drawn symbol	2m	
(v)	Isobars	2m	Total 10m
Q.10 (i)	21 (%)	2m	
(ii)	Niger	2m	
(iii)	41 (%)	2m	
(iv)	Primary	2m	
	Tertiary	2m	Total 10m
Q.11 (i)	149 (millimetres)	2m	
(ii)	August	2m	
(iii)	Four	2m	
(iv)	Belmullet	2m	
(v)	Rain gauge	2m	Total 10m
Q.12	B	2m	
	E	2m	
	C	2m	
	D	2m	
	A	2m	Total 10m

PART TWO – STRUCTURED QUESTIONS – 200 MARKS

You must attempt **TWO** questions. Each question must be from a different section.

- Section 1: **Patterns and Processes in the Physical Environment** (Questions 1-3)
- Section 2: **Regional Geography** (Questions 4-6)
- Section 3: **Electives** (Questions 7-12)

All questions carry equal marks.

THESE QUESTIONS ARE TO BE ANSWERED IN THE ANSWERBOOK CONTAINING PART ONE

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:

- Lough Cullin
- Griffins Island
- An area of mixed woodland
- The entire area of land above 200 metres in the north-east of the map
- The entire course of the Clydagh 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

1B. Volcanoes

- (i) Name **two** examples of volcanoes.

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

- (ii) Discuss the positive effects of volcanoes.

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

- (iii) Discuss the negative effects of volcanoes.

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

Total 40m

1C. Rocks

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

Sedimentary rock named **3m**

Valid location stated **3m**

- (ii) Describe and explain how sedimentary rocks are formed.

Description/Explanation 8 SRP's @ 3m each **24m**

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. Plate Tectonics

- (i) Are the plates colliding or separating at **A**?
Separating 3m
- (ii) Name the ocean ridge that runs North – South along the plate boundary at **A**.
Mid Atlantic Ridge 3m
- (iii) Name the volcanic island found at **B**.
Iceland 3m
- (iv) Name the plate on which Ireland lies.
Eurasian 3m
- (v) Name the **two** plates that are colliding together at the boundary labelled **C**.
Nazca plate and South American plate 3m + 3m
- (vi) Name **one** landform that is formed at colliding plate boundaries **and** name **one** example of this landform.
One valid landform 3m
One valid example 3m
- (vii) Explain briefly how plates move.
Brief explanation two SRP's @ 3m each 6m

Total 30m

2B. Surface Processes

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

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.

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

Question 3

3A. Surface Processes

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

- **B** Scree slope **3m**
- **A** Limestone pavement **3m**
- **C** Tombolo. **3m**

- (ii) In your answer book, match each of the letters **A**, **B** and **C** on the photographs above, with the process most associated with its formation from the list below:

- **C** Coastal deposition **3m**
- **B** Physical/mechanical weathering **3m**
- **A** Chemical weathering. **3m**

- (iii) Name **one** process of physical/mechanical weathering.

Valid process named **3m**

- (iv) Name **one** process of chemical weathering.

Valid process named **3m**

- (v) Explain briefly the process of *hydraulic action*.

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

Total 30m

3B. Earthquakes

- (i) Name **two** geographical locations where earthquakes have occurred.

Two valid locations named **3m + 3m**

- (ii) Name **one** scale used to measure earthquakes.

One valid scale named **4m**

- (iii) Explain how earthquakes occur **and** describe their main effects.

Explanation/description 10 SRP's @ 3m each **30m**

At least one SRP for explanation of how earthquakes occur.

At least one SRP for description of main effects of earthquakes.

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 Surface Processes

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

- River processes
- Coastal processes
- Mass movement.

Interaction identified	3m
Examination 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

SECTION 2

REGIONAL GEOGRAPHY

Questions 4 to 6

All questions carry 100 marks.

Question 4

4A. 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** each of the following:

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

Outline of Region **6m graded (6/4/2/0)**

Relief (upland/lowland): **Named** **2m**
 Shown **4m graded (4/2/0)**

River: **Named** **2m**
 Shown **4m graded (4/2/0)**

Town/City 1: **Named** **2m**
 Shown **4m graded (4/2/0)**

Town/City 2: **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.

Named example

4m

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

Explanation 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.

Description 3 SRP's @ 3m each

9m

Total 40m

4C. Concept of a region

Describe and explain, using examples, any **two** of the region types listed below:

- Climatic regions
- Geomorphological regions
- Cultural regions defined by language
- Cultural regions defined by religion.

Description/explanation 10 SRP's @ 3m each

Region 1: 5 SRP's @ 3m each

15m

Region 2: 5 SRP's @ 3m each

15m

Allow an example of each region for two SRP's.

At least one SRP for explanation.

Total 30m

Question 5

5A. Forestry in Ireland

- (i) Name **two** counties that had more than 300 hectares of land planted with trees in 2016.
Cavan/Leitrim/Mayo **3m + 3m**
- (ii) In which year between 2014 and 2018 was the most land in Wicklow planted with trees?
2016 **3m**
- (iii) Which county had the most land planted with trees in 2018?
Cavan **3m**
- (iv) Calculate the difference between the land planted with trees (in hectares) in 2018 in Mayo and Kildare.
176 (hectares) **6m**
- (v) State **two** physical factors that make Ireland suitable for forestry.
Two valid factors stated **3m + 3m**
- (vi) Explain briefly **one** advantage of forestry to the Irish economy.
Brief explanation two SRP's @ 3m each **6m**

Total 30m

5B. 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

5C. Primary Economic Activity in a Continental / Sub-Continental Region

Answer each of the following questions with reference to a **Continental / Sub-Continental** region (**not in Europe**) that you have studied.

- (i) Name **one** primary economic activity that contributes to the economy of this region.

Named primary economic activity **4m**

- (ii) Explain the advantages that this region has for the development of the primary economic activity named in part (i) above.

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

Allow a named region for one SRP

- (iii) Describe **one** problem faced by this primary economic activity in this region.

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

Total 40m

Question 6

6A. European Union – Agriculture

- (i) How much milk (in million tonnes) was produced in the Netherlands in 2018?
14 **3m**
- (ii) Which country listed in the table above produced the most milk in 2018?
Germany **3m**
- (iii) What percentage of milk was used to make cream?
12 (%) **3m**
- (iv) Calculate **X**, the percentage of milk that was used to make butter.
29 (%) **6m**
- (v) Which product was milk most used for in 2018?
Cheese **3m**
- (vi) Name **two** types of farm found in Ireland.
Two valid types named **3m + 3m**
- (vii) Explain briefly **one** advantage of European Union membership for Irish farmers.
Brief explanation two SRP's @ 3m each **6m**

Total 30m

6B. Economic Activities – European Region

Explain the development of any **two** of the following with reference to a **European** region (**not in Ireland**) that you have studied:

- The reasons why tourists are attracted to the region
- The importance of manufacturing to the region
- The development of transport in 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

6C. Regional Problems

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

Description/explanation of problem 1: 5 SRP's @ 3m each **15m**

Description/explanation of problem 2: 5 SRP's @ 3m each **15m**

Allow a named region for one SRP.

At least one SRP for explanation.

Total 30m

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. Energy Use in Ireland

- (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** negative impact of CO₂ emissions.

Brief explanation 2 SRP's @ 3m each

6m

Total 30m

7B. Multinational Company (MNC)

- (i) Name **one** multinational company operating in Ireland.

Valid MNC named

4m

- (ii) Name **one** raw material used by this multinational company **and** name the country from which this raw material is sourced.

Valid raw material named

3m

Valid source country named

3m

- (iii) Name **one** product manufactured by this multinational company.

Valid product named

3m

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

Valid location

3m

Explanation 8 SRP's @ 3m each

24m

Total 40m

7C. Ireland and the European Union

Explain how being a member of the European Union has impacted on the Irish economy.

Impact Identified 1 SRP **3m**

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

Allow a second impact identified for one SRP.

Allow a named policy (or policy area) for one SRP.

Total 30m

Question 8

8A. Aerial Photograph

Examine the aerial photograph of Foxford 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
- **Two** connecting streets
- A bridge
- An area of forest in the left background
- An area of waste ground 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

8B. Economic Activity – Environmental Pollution

- (i) Name **one** example of environmental pollution caused by economic activity.

Valid example named **4m**

- (ii) Explain the causes **and** effects of this environmental pollution.

One cause identified **3m**

One effect identified **3m**

All further causes and effects require explanation

Explanation 7 SRP's @ 3m each **21m**

Sub-total 27m

- (iii) Describe how this environmental pollution could be reduced.

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

Total 40m

8C. Economic Development – Developed Economy

Describe and explain the development of **one** of the following with reference to a developed economy that you have studied:

- Tourism
- Financial services
- Service and footloose industries.

Named developed economy **3m**

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

At least one SRP for explanation.

Total 30m

Question 9

9A. Human Development Index

- (i) Which country had the highest Human Development Index value in 2018?
Ireland **3m**
- (ii) What was the gross national income per capita (in US\$) for Australia in 2018?
44,097 (US\$) **3m**
- (iii) Which **two** countries had the lowest life expectancy at birth in 2018?
Mali and Mexico **3m + 3m**
- (iv) Calculate the difference between the gross national income per capita (in US\$) in Ireland and Mexico.
38,032 (US\$) **6m**
- (v) List **two** reasons why some countries have a higher Human Development Index value than others.
Two valid reasons listed **3m + 3m**
- (vi) Explain briefly **one** factor that influences life expectancy.
Brief explanation 2 SRP's @ 3m each **6m**

Total 30m

9B. 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 factory within the area covered by the map.

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

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 factory at this location.

One disadvantage described 3 SRP's @ 3m each

9m

Total 40m

9C. Colonialism

- (i) Name **one** developing economy that was colonised.

Named developing economy

3m

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

Description/explanation 9 SRP's @ 3m each

27m

At least one SRP for explanation.

Total 30m

PATTERNS AND PROCESSES IN THE HUMAN ENVIRONMENT

Questions 10 to 12

Question 10

10A. Aerial Photograph

Examine the aerial photograph of Foxford accompanying this paper.

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

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

- A large car park
- **Two** connecting streets
- **Two** churches
- A sports pitch 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. Migration – Rural to Urban

- (i) State **two** reasons why people migrate from rural areas to urban areas.

Two valid reasons stated @ 2m + 2m 4m

- (ii) Describe and explain the effect of this migration on the urban areas that people migrate to.

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

At least one SRP for explanation.

- (iii) Describe and explain the effect of this migration on the rural areas they leave behind.

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

At least one SRP for explanation.

Total 40m

10C. Overpopulation

- (i) Explain briefly what is meant by the term *overpopulation*.

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

- (ii) Describe and explain the causes **and** effects of overpopulation with reference to example(s) that you have studied.

One cause identified 3m

One effect identified 3m

All further causes and effects require description/explanation

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

At least one SRP for explanation.

Total 30m

Question 11

11A. Population Distribution

- (i) What was the population of Co. Louth in 2011?
122,897 **3m**
- (ii) What percentage of Ireland's population lived in rural areas in 2016?
37 (%) **3m**
- (iii) Calculate the change in the population of Co. Sligo between 2011 and 2016.
(+) 142 **6m**
- (iv) Which county had the highest percentage of population living in rural areas in 2016?
Co. Leitrim **3m**
- (v) State **two** reasons why more people in Ireland live in urban areas.
Two valid reasons stated **3m + 3m**
- (vi) What percentage of Co. Dublin's population lived in urban areas in 2016?
98 (%) **3m**
- (vii) Briefly explain **one** reason why Ireland's population is increasing.
Brief explanation 2 SRP's @ 3m each **6m**

Total 30m

11B. Developing World City

- (i) Name **one** city in the developing world that is rapidly growing.

Valid developing world city named **4m**

- (ii) Explain the reasons for the rapid growth of this developing world city.

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

- (iii) Describe the problems caused by this rapid growth.

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

- (iv) Explain **one** solution to these problems.

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

Total 40m

11C. Development of Urban Settlements

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

Explain **three** reasons why the town of Foxford developed at this location, using evidence from the Ordnance Survey map to support each reason.

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

For each reason:

Ordnance Survey map evidence **1m**

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

Total 30m

Question 12

12A. Population Density

- (i) Using graph paper, draw a suitable graph or chart 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 some areas have low population densities.

Brief explanation 2 SRP's @ 3m each	6m	
		Total 30m

12B. Urban Functions

- (i) Name **one** urban area that you have studied.

Valid urban area named	3m
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- (ii) Name any **two** functions of this urban area.

Two valid functions named	3m + 3m
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- (iii) Describe and explain how the functions of this urban area have changed over time.

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

Total 30m

12C. Rural Settlement Patterns

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

- (i) Name **three** different rural settlement patterns evident on the Ordnance Survey map **and** give a six-figure grid reference for the location of an example of each.

Pattern 1 named: 4m

Pattern 2 named: 3m

Pattern 3 named: 3m

Grid reference 1: 4m graded (4/2/0)

Grid reference 2: 4m graded (4/2/0)

Grid reference 3: 4m graded (4/2/0)

- (ii) Explain each of the **three** rural settlement patterns named in part (i) above.

Explanation for each pattern:

Pattern 1: 2 SRP's @ 3m each 6m

Pattern 2: 2 SRP's @ 3m each 6m

Pattern 3: 2 SRP's @ 3m each 6m

Total 40m

Appendix 1

List of Geographical Investigation Topics 2021

1. Changing land-use in a local area.
2. The impact of migration in a local area.
3. An investigation of a local environmental issue.
4. A study of the geology of a local area.
5. Investigate the impact of **two** specific processes of erosion (e.g. abrasion, attrition, solution etc.) on the shaping of the landscape in a fluvial **or** coastal **or** glacial environment.
6. The impact primary **or** secondary economic activity in a local area.

Appendix 2



Coimisiún na Scrúduithe Stáit State Examinations Commission

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 300 @ 10%

Bain úsáid as an tábla seo i gcás na n-ábhar a bhfuil 300 marc san iomlán ag gabháil leo agus inarb é 10% gnáthrata an bhónais.

Bain úsáid as an ngnáthrata i gcás 225 marc agus faoina bhun sin. Os cionn an mharc sin, féach an tábla thíos.

Bunmharc	Marc Bónais
226	22
227 - 230	21
231 - 233	20
234 - 236	19
237 - 240	18
241 - 243	17
244 - 246	16
247 - 250	15
251 - 253	14
254 - 256	13
257 - 260	12
261 - 263	11

Bunmharc	Marc Bónais
264 - 266	10
267 - 270	9
271 - 273	8
274 - 276	7
277 - 280	6
281 - 283	5
284 - 286	4
287 - 290	3
291 - 293	2
294 - 296	1
297 - 300	0

Geographical Investigation – Not included in total for bonus marks

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

