Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate 2025

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

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.

Q.1		B	2m	
		E	2m	
		A	2m	
		D	2m	
		C	2m	Total 10m

Q.2 (i)		C	2m	
		B	2m	
		A	2m	
	(ii)(a)	False	2m	
	(ii)(b)	True	2m	Total 10m

Q.3 (i)		C	2m	
		A	2m	
		B	2m	
		D	2m	
	(ii)	Erosion	2m	Total 10m

Q.4 (i)		B	2m	
		C	2m	
	(ii)	Sedimentary	2m	
		Metamorphic	2m	
		Igneous	2m	Total 10m

| Q.5 (i) | | North east | 5m | |
| | (ii) | 7 km² | 5m | Total 10m |

Q.6 (i)		18hole golf	2m	
		Cycle route	2m	
		Cillin	2m	
	(ii)	National (secondary)	2m	
	(iii)	Correctly drawn symbol	2m	Total 10m

Q.7	(i)	False	2m	
	(ii)	False	2m	
	(iii)	True	2m	
	(iv)	True	2m	
	(v)	True	2m	Total 10m

Q.8		B	2m	
		E	2m	
		A	2m	
		D	2m	
		C	2m	Total 10m

Q.9	(i)	1973	2m	
	(ii)	3	2m	
	(iii)	Croatia	2m	
	(iv)	2004	2m	
	(v)	Valid advantage	2m	Total 10m

Q.10	(i)	C	2m	
		D	2m	
		A	2m	
		B	2m	
	(ii)	Anticyclone	2m	Total 10m

Q.11	(i)	32 (%)	2m	
	(ii)	Monaghan & Longford	2m	
	(iii)	Car	2m	
	(iv)	2,320,297	2m	
	(v)	Valid impact	2m	Total 10m

Q.12	(i)	D	2m	
		A	2m	
		C	2m	
		B	2m	
	(ii)	Dormant	2m	Total 10m

PART TWO – STRUCTURED QUESTIONS – 300 MARKS

You must attempt **THREE** questions. You must answer one question from two different sections below:

- 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)

The third question can be from any section.

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 Corrib
- The N59 road
- An area of coniferous plantation in the south east of the map
- The entire area of land above 200 metres at M 03 42
- Inishshanboe Island.

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.   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

1C.   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 2

2A.   Volcanoes

Volcanic Activity in Hawaii, USA

Hawaii is known worldwide as an active volcanic island, located in the Pacific Ocean.

Hawaii is located at a hotspot and experiences regular volcanic eruptions. The hotspot is responsible for these eruptions.

The Kilauea volcano, in the south east of the island, is one of the most active volcanoes in the world. It erupted three times in 2024.

Volcanoes are a huge tourism attraction for Hawaii and bring many tourists to the island every year. However, some tours were cancelled in 2024 as lava, toxic gasses and smoke erupted from Kilauea.

Amended from www.nps.gov

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

(i)   In which ocean is Hawaii located?

Pacific   **6m**

(ii)   What is responsible for the eruptions mentioned in the article?

Hotspot   **6m**

(iii) How many times did Kilauea erupt in 2024?

Three   **6m**

(iv)   List **two** effects of a volcanic eruption.

Valid effects listed   **3m+3m**

(v)   Explain briefly **one** way to limit the damage caused by a volcanic eruption.

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

                                                          Total 30m

2B.   Rocks

(i)   Name **two** examples of sedimentary rocks.

Sedimentary rocks named   **3m+3m**

(ii)   State **two** uses of sedimentary rocks.

Valid uses stated 4m+3m

(iii) Describe and explain how sedimentary rocks are formed.

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 40m

2C. Human Interaction with Surface Processes

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

- River processes

- Coastal processes

- Mass movement processes.

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

Question 3

3A. Surface Processes

A — www.booking.com
B — www.worldofwaterfalls.com
C — www.britannica.com

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

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

- **B** Waterfall **3m**
- **C** Landslide **3m**
- **A** Beach. **3m**

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

- **A** Coastal deposition **3m**
- **B** River erosion **3m**
- **C** Mass movement. **3m**

(iii) Name **one** process of river erosion.

Valid process named **6m**

(iv) Explain briefly the process of *longshore drift*.

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

Total 30m

3B. Weathering

(i) Name any **two** factors that influence weathering.

Two valid factors named @ 2m each **4m**

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

Weathering type 1 explained 6 SRP's @ 3m each   18m

Weathering type 2 explained 6 SRP's @ 3m each   18m

Allow one SRP for relevant annotated diagram.

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

At least one SRP for explanation.

Total 40m

3C.   Plate Tectonics

(i)   Name **two** examples of tectonic plates.

Two valid tectonic plates named   3m+3m

(ii)   Name **two** types of plate boundary.

Two valid types of plate boundary named   3m+3m

(iii)   Describe and explain what happens at plate boundaries.

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

At least one SRP for explanation.

Allow a different 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 30m

SECTION 2
REGIONAL GEOGRAPHY
Questions 4 to 6

All questions carry 100 marks.

Question 4

4A.   European Region

Draw a sketch map of a **European** region (**not in Ireland**) that you have studied.

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

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

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

One valid secondary economic activity named   **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.   Regions and Culture

The culture of a region can often be determined by the following factors:

Religion	Language	Politics
Music/Dance		Sport/Games

Describe and explain the importance of culture in any **one** region that you have studied.
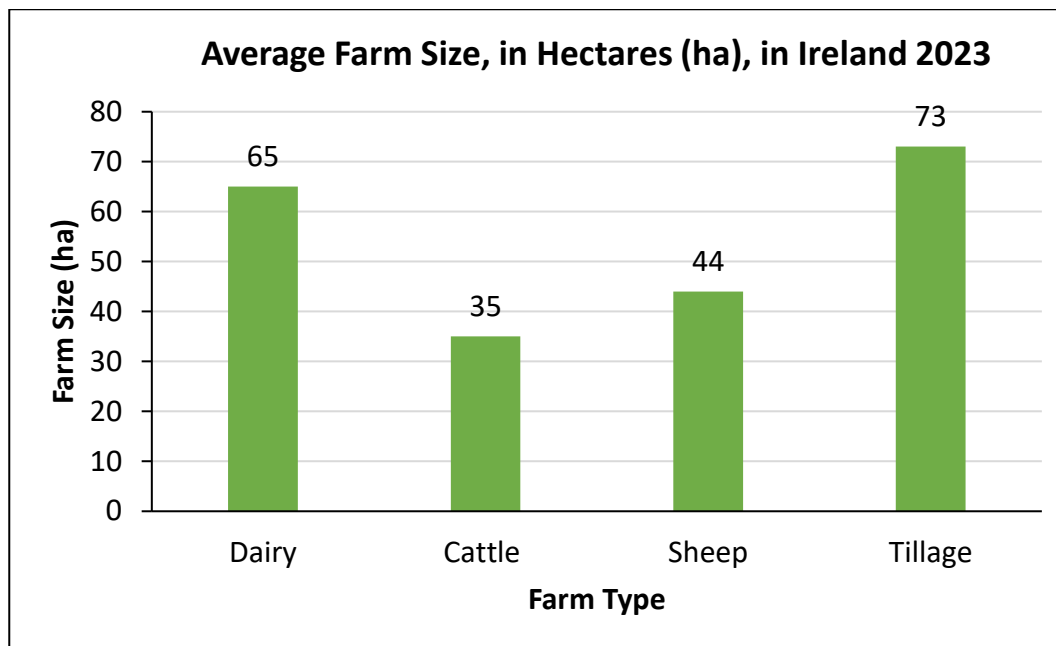
Description/explanation 10 SRP's @ 3m each

Allow a cultural region named for one SRP
At least one SRP for explanation.

Total 30m

Question 5

5A. Agriculture in Ireland

Average Farm Size, in Hectares (ha), in Ireland 2023

Dairy: 65
Cattle: 35
Sheep: 44
Tillage: 73

(Y-axis: Farm Size (ha), X-axis: Farm Type)

Amended from www.teagasc.ie

Examine the chart above showing the average size of Irish farms in hectares (ha) in 2023 and answer each of the following questions.

(i)   Which farm type had the smallest average farm size?

   Cattle   **6m**

(ii)   What was the average size (in hectares) of tillage farms?

   73 (ha)   **6m**

(iii)   Calculate the difference (in hectares) between the average dairy farm size and the average sheep farm size.

   21 (ha)   **6m**

(iv)   State **two** products made from the output of a dairy farm.

   Two valid products stated   **3m+3m**

(v)   Briefly explain the importance of farming to the Irish economy.

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

   Total 30m

5B.   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

5C.   **Regional Problems**

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

        Problem 1

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

        Problem 2
        Description/Explanation 5 SRP's @ 3m each   **15m**

        At least one SRP for explanation for each problem.
        Allow a named region for one SRP.

                              Total 30m

Question 6

6A.   **Employment in Europe**

Percentage (%) of working population in selected EU countries, 2023

Country	Total Working Population (%)	Male Working Population (%)	Female Working Population (%)
Netherlands	83	87	80
Ireland	79	84	74
Finland	78	78	78
Italy	66	76	57

Amended from www.europa.eu

Examine the table above with information on the percentage (%) of working population in employment in selected European Union countries in 2023 and answer each of the following questions.

(i) What percentage (%) of Ireland's male working population were in employment?

84 (%)   **6m**

(ii) In which country were 78% of the female working population in employment?

Finland   **6m**

(iii) Calculate the difference between the percentage (%) of the male working population in employment and the percentage (%) of the female working population in employment in Italy.

19 (%)   **6m**

(iv) State **two** benefits to a country of a high percentage of its working population being in employment.

Two valid benefits stated   **3m+3m**

(v) Explain briefly **one** reason why the percentage of males in employment is often higher than the percentage of females in employment

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

Total 30m

6B.   **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.

One valid primary economic activity named   **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

6C.   **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

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

All questions carry 100 marks.

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

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

- A lake in the background
- **Two** connecting streets in the left foreground
- A field used for agriculture in the right background
- An industrial building in the centre middleground
- A sports ground.

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.   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.

Cause identified one SRP @ 3m each   3m

Effect identified one SRP @ 3m each   **3m**

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

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

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

Total 40m

7C.   **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 8

8A.   **Employment in Ireland**

Number of new jobs created by the Industrial Development Authority (IDA) in selected counties in 2018, 2020 and 2022

County	2018	2020	2022
Cavan	16	30	39
Dublin	13,035	12,174	17,207

Limerick	1,491	787	1,125
Roscommon	126	120	126

Examine the table above showing the number of new jobs created by the IDA in selected counties in 2018, 2020 and 2022 and answer each of the following questions.

(i)   How many new jobs were created in Limerick in 2020?

787   **6m**

(ii)   Which county had the lowest number of new jobs created in 2018?

Cavan   **6m**

(iii) Which county had 126 new jobs created in 2022?

Roscommon   **6m**

(iv) Calculate the difference between the number of new jobs created in Dublin in 2020 and 2022.

5,033   **6m**

(v)   Explain briefly why the number of new jobs created in Dublin and Limerick is much higher than the number of new jobs created in Cavan and Roscommon.

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

Total 30m

8B.   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

8C.   **Colonialism**

(i)   Name **one** developing economy which has been colonised **and** name the country that colonised it.

Valid colonised country   **3m**

Valid colonising country   **3m**

(ii)   Describe and explain the effects that colonialism has had on this developing economy.

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

At least one SRP for explanation.

                              Total 30m

Question 9

9A. Ireland's Economy

New Car Registrations in Ireland in 2023 by Engine Type

Engine Type	Percentage (%) Market Share
Petrol	30
Diesel	22
Petrol/Diesel Hybrid	21
Electric	18
Petrol/Diesel Plug-in Hybrid	9

Amended from www.simi.ie

Examine the data above on new car registrations in Ireland in 2023 by engine type 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, explain briefly what is meant by the term *renewable energy.*

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

9B. Multinational Company

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

Valid MNC named **2m**

Valid location stated **2m**

(ii) Name **one** product manufactured by this multinational company
and name **one** country (other than Ireland) where this product is sold.

Valid product named **3m**

Valid country named **3m**

(iii) Explain the advantages of being located in Ireland for this multinational company.

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

(iv) 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

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

PATTERNS AND PROCESSES IN THE HUMAN ENVIRONMENT

Questions 10 to 12

All questions carry 100 marks.

Question 10

10A. Aerial Photograph

Examine the aerial photograph of Oughterard 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 car park
- The Central Business District (CBD)
- A church
- An area of semi-detached housing in the centre foreground
- An area of recreational activity.

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 – Ireland

Migration takes place due to push factors and pull factors.

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

   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

10C.   Traffic Congestion

(i)   Name **one** example of an urban area where traffic congestion is a problem.

   Named example   **3m**

(ii)   Describe and explain the measures that can be taken in urban areas to solve the problem of traffic congestion.

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

   At least one SRP for explanation.

                                                            Total 30m

Question 11

11A.   Population Characteristics

Population figures for selected EU countries, 2022

Country	Total Population (millions)	Population Density (persons per km²)	Birth Rate (per 1,000 of population)
Ireland	5.2	75	10.4
Belgium	11.6	384	9.8
Lithuania	2.8	45	7.8
Greece	10.5	80	7.3

Amended from www.europa.eu

Examine the table above showing population figures for selected European Union countries in 2022 and answer each of the following questions.

(i)   What was the population (in millions) of Ireland?

5.2 (millions)   **6m**

(ii)   Which country had the highest population density?

Belgium   **6m**

(iii)   In which country was the birth rate 7.3?

Greece   **6m**

(iv)   Calculate the difference (in millions) between the total population of Lithuania and the total population of Greece.

7.7 (millions)   **6m**

(v)   Explain briefly **one** impact of high birth rates in Ireland.

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.

Developing City named   **4m**

(ii)   State **three** factors that influence the growth of this developing world city.

Factor 1:   **3m**

Factor 2:   **3m**

Factor 3:   **3m**

(iii)   Describe and explain any **three** problems associated with the rapid growth of this developing world city.

Description / Explanation 9 SRP's @ 3m each   27m
At least one SRP for explanation.

                                               Total 40m

11C.   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.

Factor named   **3m**

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

At least one SRP for explanation.

Allow a second factor named for one SRP.

                                               Total 30m

Question 12

12A. Urban Population

<div align="center">

Percentage (%) of the Global Population
Living in Urban Areas, 1982-2022

Year	Percentage (%) of Global Population
1982	40
1992	44
2002	48
2012	53
2022	57

</div>

<div align="right">

Amended from www.worldbank.org

</div>

Examine the table above showing the percentage (%) of the global population living in urban areas between 1982 and 2022 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, explain briefly **one** impact of an increasing percentage (%) of the global population living in urban areas.

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

<div align="right">

Total 30m

</div>

12B. Rural Settlement Patterns

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

(i)   Name **three different** rural settlement patterns evident on the 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)   Describe and explain each of the **three** rural settlement patterns named by you in part (i) above.

Description/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

12C. Urban Land-Use

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

Valid urban area named	**3m**

(ii)   Name **two** land-uses in this urban area.

Valid land-uses named	**3m+3m**

(iii)   Describe and explain how these urban land-uses have changed over time.

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

Total 30m