



**Coimisiún na Scrúduithe Stáit**  
**State Examinations Commission**

**Leaving Certificate 2019**

**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

Allow one SRP for diagram for each Method/Task.

36m

Coherence – 2m graded (2/1/0)
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Conformity with prescribed length 2m
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4m
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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)
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Conformity with prescribed length 2m
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6m
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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)

<b>PART ONE – SHORT-ANSWER QUESTIONS – 100 MARKS</b>				
<b>ANY TEN QUESTIONS @ 10 MARKS EACH</b>				
Mark <b>all</b> questions attempted and award ten questions with highest marks.				
Q1.(i)	B		2m	
	D		2m	
	C		2m	
	A		2m	
Q.1(ii)	Any valid example		2m	Total 10m
Q.2(i)	C		2m	
	D		2m	
	A		2m	
	B		2m	
Q.2(ii)	Chemical Weathering		2m	Total 10m
Q.3(i)	<b>(D)</b>	Q.3 (ii) Erosion	2m	
	B	<b>(Both)</b>	2m	
	C	<b>(Erosion)</b>	2m	
	A	Deposition	2m + 2m	Total 10m
Q.4 (i)	C		2m	
	A		2m	
	B		2m	
	D		2m	
Q.4 (ii)	Iceland		2m	Total 10m
Q.5(i)	North west		5m	
Q.5(ii)	7.0 km		5m	Total 10m
Q.6(i)	Golf course		2m	
	Rifle Range		2m	
	Railway Station		2m	
Q.6(ii)	Regional		2m	
Q.6(iii)	Correct symbol		2m	Total 10m

Q.7	(i) False (ii) True (iii) False (iv) False (v) True	2m 2m 2m 2m 2m	Total 10m
Q.8	B E A D C	2m 2m 2m 2m 2m	Total 10m
Q.9	(i) 2007 (ii) 10 (iii) Croatia (iv) Southern Europe (v) Any valid advantage	2m 2m 2m 2m 2m	Total 10m
Q.10	(i) 4 (°C) (ii) 27 (km/hr) (iii) 6 (hrs) (iv) 8 (°C) (v) Thermometer	2m 2m 2m 2m 2m	Total 10m
Q.11	(i) 2016 (ii) 9 (%) (iii) 2013 and 2014 (iv) Increasing (v) 11 (%)	2m 2m 2m 2m 2m	Total 10m
Q.12(i)	B C A D	2m 2m 2m 2m	
Q.12(ii)	Miyakejima Volcano, Japan Crater Lake, USA	1m 1m	Total 10m

## **PART TWO – STRUCTURED QUESTIONS– 300 MARKS**

You must attempt **THREE** questions, as follows:

- **TWO** questions from **Section 1 – Core**:
  - **One** question from Questions 1, 2 and 3 **(100 marks)**
  - AND**
  - **One** question from Questions 4, 5 and 6 **(100 marks)**
- **ONE** question from **Section 2 – Electives (100 marks)**

***THESE QUESTIONS ARE TO BE ANSWERED IN THE ANSWER BOOK***

### **SECTION 1 – CORE**

#### **Questions 1 to 6**

You **MUST** attempt **TWO** questions:

**ONE** from **Patterns and Processes in the Physical Environment**

**AND**

**ONE** from **Regional Geography**



# PATTERNS AND PROCESSES IN THE PHYSICAL ENVIRONMENT

## Questions 1 to 3

Attempt **ONE** question.

### 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 **highest** point on the Ordnance Survey map
- Templemore Lake
- The River Suir from S 132 728 to where it leaves the map at S 119 680
- An area of coniferous planation in the south east
- An area of deciduous woodland south of Templemore.

#### 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:**

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

**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:**

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

**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. Earthquakes

- (i) What name is given to the area where 80% of all earthquakes occur?  
**Rim of Pacific Ocean/Ring of Fire** **3m**
- (ii) Name the scale used to assign a magnitude rating to an earthquake.  
**Valid scale named** **3m**
- (iii) What range of magnitude is considered to be a moderate to strong earthquake?  
**5 to 7** **3m**
- (iv) Explain briefly what is meant by a *fault zone*.  
**Brief explanation two SRP's @ 3m each** **6m**
- (v) List **three** effects of an earthquake.  
**Three valid effects @ 3m each** **9m**
- (vi) Explain briefly **one** way to limit the damage that an earthquake can cause.  
**Brief explanation 2 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 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**

**2C. Rocks**

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

**Two sedimentary rocks named @ 3m each** **6m**

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

**Use 1** **4m**

**Use 2** **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 the diagrams can be awarded SRP's.**

**Total 40m**

### Question 3

#### 3A. Landforms and Processes

- (i) In your answer book, match each of the letters **A**, **B** and **C** on the photographs above, with the Irish landform that best matches it from the list below:
- **C** Beach **3m**
  - **A** U-shaped valley **3m**
  - **B** Basalt columns. **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:
- **B** Lava cooling **3m**
  - **C** Longshore drift **3m**
  - **A** Plucking. **3m**
- (iii) Explain briefly **each** of the following:
- Longshore drift
  - Plucking.

**Two brief explanations - two SRP's @ 3m each** **12m**

**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:
- Onion weathering
  - Carbonation
  - Freeze-thaw action

**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 Boundaries**

Describe and explain what happens at constructive (separating) plate boundaries **and** destructive (colliding) plate boundaries.

**Description/explanation of constructive 5 SRP's @ 3m each** **15m**

**Description/explanation of destructive 5 SRP's @ 3m each** **15m**

**Allow one SRP for relevant annotated diagram for each.**

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

**Allow one SRP for a named example for each.**

**At least one SRP for explanation.**

**Total 30m**

## REGIONAL GEOGRAPHY

### Questions 4 to 6

Attempt **ONE** question.

#### 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.

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

**Total 30m**



**B. Tertiary Economic Activities – Continental / Sub-Continental Region**

(i) Name **two** types of transport in a **Continental / Sub-Continental** region that you have studied.

**Two valid transport types named @ 1m each** **2m**

(ii) Describe and explain the importance of transport in this region.

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

**At least one SRP for explanation.**

(iii) Give the names of **two** specific tourist attractions in the **Continental / Sub-Continental** region that you have studied.

**Two valid tourist attractions named @ 1m each** **2m**

(iv) Describe and explain the reasons why tourists are attracted to this region.

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

**At least one SRP for explanation.**

**Total 40m**

**C. 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 any **three** of these factors to the culture of any region that you have studied.

**Description/explanation of three factors:**

**Factor 1: 4 SRP's @ 3m each** **12m**

**Factor 2: 3 SRP's @ 3m each** **9m**

**Factor 3: 3 SRP's @ 3m each** **9m**

**Mark to the benefit of the candidate.**

**Total 30m**

## Question 5

### 5A. Transport

- (i) What percentage of people travelled by bus in 2010?  
**38.3(%)** **3m**
- (ii) By how much, did the percentage of people travelling by train decrease between 2004 and 2016?  
**1.4(%)** **6m**
- (iii) Which form of transport was most popular in 2004?  
**Car** **3m**
- (iv) Which **two** forms of transport had the same trend in usage from 2004 to 2016?  
**Train and bus** **3m + 3m**
- (v) Explain briefly **one** environmental problem associated with an increase in the number of people travelling by car.  
**Brief explanation 2 SRP's @ 3m each** **6m**
- (vi) Explain briefly **one** way to reduce the number of people travelling by car.  
**Brief explanation 2 SRP's @ 3m each** **6m**
- Total 30m**

### 5B. Urban Regions

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

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

**At least one SRP for explanation.**

**Allow an urban area named for one SRP.**

**Total 30m**

**5C. 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.

**Named example** **4m**

- (ii) Explain the advantages 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**

## Question 6

### 6A. EU Tourism

- (i) How many million trips were made by EU residents outside their own country in 2016 **and** what percentage of total trips did this represent?  
**308(million) 3m**  
**26(%) 3m**
- (ii) What was the total expenditure (€ billion) spent by EU residents on all trips (within and outside their own country) in 2016?  
**428(€ billion) 3m**
- (iii) Explain briefly **one** possible reason why more money was spent on trips outside EU residents' own country (55%) rather than inside their own country (45%) in 2016.  
**Brief explanation two SRP's @ 3m each 6m**
- (iv) Explain briefly **one** possible reason why Spain was the most popular destination for EU residents to visit.  
**Brief explanation two SRP's @ 3m each 6m**
- (v) Which was the **third** most popular destination for EU residents to visit in 2016?  
**France 3m**
- (vi) Name **one** country in the 'Other' category that EU residents may have travelled to **and** name **one** tourist attraction in this country.  
**Named country 3m**  
**One valid attraction named 3m**

**Total 30m**

**6B. Primary Economic Activities – Irish Region**

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

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

**Named activity** **4m**

- (ii) Explain how **two** of the factors listed below influence the development of the primary economic activity named by you in part (i) above:

Climate                      Relief and soils                      Markets

**Two factors 12 SRP's @ 3m each**

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

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

**Allow a named region for one SRP.**

**Total 40m**

**6C. Regional Problems**

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

**Description/Explanation 10 SRP's @ 3m each**

**Problem 1:    5 SRP's @ 3m each** **15m**

**Problem 2:    5 SRP's @ 3m each** **15m**

**Allow a named region for one SRP.**

**At least one SRP for explanation.**

**Total 30m**

# PATTERNS AND PROCESSES IN ECONOMIC ACTIVITIES

## Questions 7 to 9

### Question 7

#### 7A. Aerial Photograph

Examine the aerial photograph of Templemore 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 main street in the town
- A car park
- A field with animals in it, in the right middleground
- An industrial building in the left foreground
- An area of recreational activity in the left background.

#### Sketch Outline:

Limits/frame	1m
Proportions (landscape)	2m
Overall impression	2m graded (2/1/0)
	<b>Sub-total 5m</b>

#### Five items shown and labelled as follows:

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

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 Development – Developed Economy

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

- Tourism
- Financial services
- Service and footloose industries.

<b>Named developed economy</b>	<b>3m</b>
<b>Description and explanation 9 SRP's @ 3m each</b>	<b>27m</b>

**At least one SRP for explanation.**

**Total 30m**

## 7C. Economic Activity - Environmental Pollution

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

**Valid named example** **4m**

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

**Cause identified one SRP @ 3m** **3m**

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

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

**At least one SRP to explain causes.**

**At least one SRP to explain effects.**

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

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

**Total 40m**

## Question 8

### 8A. Employment

- (i) How many people were employed in foreign owned companies in the South-East region?  
**14,918** **3m**
- (ii) Which region had the **second** highest number of people employed in foreign owned companies?  
**South-West** **3m**
- (iii) Calculate the number of people employed in foreign owned companies in the Border, Midlands and West combined.  
**39,082** **6m**
- (iv) What do the letters IDA stand for?  
**Industrial Development Authority/Agency** **3m**
- (v) State **one** responsibility of IDA Ireland referred to in the extract above.  
**Any valid responsibility** **3m**
- (vi) Explain briefly **two** reasons why the Dublin and Mid-East region had the highest number of people employed in foreign owned companies.  
**Reason 1: Brief explanation 2 SRP's @ 3m each** **6m**  
**Reason 2: Brief explanation 2 SRP's @ 3m each** **6m**
- Total 30m**

### 8B. Economic Activity

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

- (i) Name **two** different modes of transport that are evident on the map.  
**Two valid forms of transport named @ 2m each** **4m**
- (ii) Name **two** different economic activities (other than transport) that are evident on the map.  
**Two valid economic activities named @ 3m each** **6m**
- (iii) With reference to **one** of the economic activities named by you in part (ii), explain how the transport network in the area is a benefit to this economic activity.  
**Explanation 7 SRP's @ 3m each** **21m**
- (iv) Describe and explain any problems that might occur as a result of the transport network on the map.  
**Description / Explanation 3 SRP's @ 3m each** **9m**
- At least one SRP for explanation.**
- Total 40m**



**8C. European Union Policy**

Choose any **one** of the European Union policies listed below and describe and explain how this policy has impacted on the Irish economy.

- Regional Development Funds
- Common Fisheries Policy
- Common Agricultural Policy
- Social Funds.

**Description / Explanation 10 SRP's @ 3m each**

**30m**

**At least one SRP for explanation.**

**Total 30m**

## Question 9

### 9A. European Union Trade

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

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

- (ii) In your answer book, name **two** specific agricultural products exported from the European Union to the rest of the world.

**Two valid products named @ 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.

**Named MNC**      **2m**  
**Location in Ireland**      **2m**

- (ii) Name **one** raw material required by this multinational company **and** name **one** product manufactured by this multinational company.

**Raw material named**      **3m**  
**Product 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** difficulty facing this multinational company in the future.

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

**Total 40m**

**9C. Colonialism and Adjustment to the Global Economy**

- (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**

# PATTERNS AND PROCESSES IN THE HUMAN ENVIRONMENT

## Questions 10 to 12

### Question 10

#### 10A. Urban Settlement

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

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

- (ii) In your answer book, calculate the total percentage of the world's population that lived in urban settlements in 2016.

**55(%)** **6m**

**Total 30m**

#### 10B. 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**

**10C. Migration**

(i) Explain briefly each of the following terms:

- Donor region in the context of migration
- Receiver region in the context of migration.

**Donor region explained 2 SRP's @ 2m each 4m**

**Receiver region explained 2 SRP's @3m each 6m**

(ii) Discuss **both** the positive and negative impacts of migration.

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

**At least one SRP must refer to a positive impact.**

**At least one SRP must refer to a negative impact.**

**Total 40m**

## Question 11

### 11A. Aerial Photograph

Examine the aerial photograph of Templemore 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 three storey building in the right foreground
- The Central Business District (CBD)
- A church
- An area of semi-detached housing in the left background
- 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**

**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 Change**

The characteristics of Ireland's population have changed over time due to many factors.

Explain how any **three** of the following factors have impacted on Ireland's population characteristics:

- Medical technology
- Culture and society
- Income levels
- Resources.

**Factor 1:** **4 SRP's @ 3m each** **12m**

**Factor 2:** **3 SRP's @ 3m each** **9m**

**Factor 3:** **3 SRP's @ 3m each** **9m**

**Mark to the benefit of the candidate.**

**Total 30m**

## Question 12

### 12A. Emigration - Ireland

- (i) How many Irish people emigrated to the UK in 2017?  
**12,100** **3m**
- (ii) To which destination was there a decrease in Irish emigrants between 2008 and 2013?  
**Australia** **3m**
- (iii) Calculate the total number of Irish emigrants to the USA in the three years of 2008, 2013 and 2017 combined.  
**21,800** **6m**
- (iv) Where did the least number of people emigrate to in 2013?  
**Australia** **3m**
- (v) Where did the least number of people emigrate to in 2017?  
**USA** **3m**
- (vi) Explain briefly **one** reason why the total number of Irish emigrants was at its highest in 2013.  
**Brief explanation two SRP's @ 3m each** **6m**
- (vii) Explain briefly **one** positive impact of emigration on Ireland.  
**Brief explanation two SRP's @ 3m each** **6m**
- Total 30m**

### 12B. Urban Land-use

- (i) Name **one** urban area you have studied.  
**Named urban area** **3m**
- (ii) Name **two** land-uses in this urban area.  
**Two named land-uses** **6m**
- (iii) Describe and explain how these urban land-uses have changed over time.  
**Description / Explanation 7 SRP's @ 3m each** **21m**
- 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 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.

<b>Pattern 1 named:</b>	<b>4m</b>
<b>Pattern 2 named:</b>	<b>3m</b>
<b>Pattern 3 named:</b>	<b>3m</b>
<b>Grid reference 1:</b>	<b>4m graded (4/2/0)</b>
<b>Grid reference 2:</b>	<b>4m graded (4/2/0)</b>
<b>Grid reference 3:</b>	<b>4m graded (4/2/0)</b>

- (ii) Describe and explain each of the **three** rural settlement patterns named by you in part (i) above.

**Description / Explanation for each pattern:**

<b>Pattern 1:</b>	<b>2 SRP's @ 3m each</b>	<b>6m</b>
<b>Pattern 2:</b>	<b>2 SRP's @ 3m each</b>	<b>6m</b>
<b>Pattern 3:</b>	<b>2 SRP's @ 3m each</b>	<b>6m</b>

**Total 40m**

## **Appendix 1**

### **List of Geographical Investigation Topics 2019**

1. The impact of geomorphic processes on shaping a glaciated, fluvial **OR** coastal environment.
2. The impact of weathering **OR** mass movement on shaping the landscape in an area of your choice.
3. The evolution of settlement over time in a local urban or rural setting.
4. A study of urban renewal/urban redevelopment in a local area.
5. Local weather patterns.
6. The impact of land-use in a local area.

## Appendix 2



# Coimisiún na Scrúduithe Stáit

### *Marcanna Breise as ucht freagairt trí Ghaeilge*

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

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

### Tábla 400 @ 10%

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

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

Bunmharc	Marc Bónais
301 – 303	29
304 - 306	28
307 - 310	27
311 - 313	26
314 - 316	25
317 - 320	24
321 - 323	23
324 - 326	22
327 - 330	21
331 - 333	20
334 - 336	19
337 - 340	18
341 - 343	17
344 - 346	16
347 - 350	15

Bunmharc	Marc Bónais
351 - 353	14
354 - 356	13
357 - 360	12
361 - 363	11
364 - 366	10
367 - 370	9
371 - 373	8
374 - 376	7
377 - 380	6
381 - 383	5
384 - 386	4
387 - 390	3
391 - 393	2
394 - 396	1
397 - 400	0

Geographical Investigation – Not included in total for bonus marks

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

