



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

**Leaving Certificate 2015**

**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 SRPs @ 1m each

Conformity with prescribed length - 1m

Total marks 5

2. Planning

4 SRPs @ 1m each

Conformity with prescribed length - 1m each

Total marks 5

3. Gathering of Data

Two Methods/Tasks @ 18m each

Each method/task - 9 SRPs @ 2m each (18 x 2)

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 SRPs @ 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)

## PART ONE – SHORT-ANSWER QUESTIONS – 100 MARKS

Attempt any **TEN** questions.

All questions carry equal marks.

**THESE QUESTIONS ARE TO BE ANSWERED IN THE SPACES PROVIDED**

Q.1 (i)	Sea stack	C	2m	
	Sea arch	B	2m	
	Sea cave	D	2m	
	Sea cliff	A	2m	
(ii)	False		2m	<b>Total 10m</b>
Q.2 (i)	Leveé	D	2m	
	Floodplain	C	2m	
	Meander	B	2m	
	Oxbow lake	A	2m	
(ii)	Old age stage		2m	<b>Total 10m</b>
Q.3 (i)	Pillar/column	C	2m	
	Clint	A	2m	
	Stalactite	B	2m	
(ii)	(a) False		2m	
	(b) True		2m	<b>Total 10m</b>
Q.4(i)	7.5		2m	
(ii)	2011		2m	
(iii)	Haiti		2m	
(iv)	Epicentre		2m	
(v)	True		2m	<b>Total 10m</b>
Q.5 (i)	North West			
	North North West		5m	
(ii)	5.8km		5m	<b>Total 10m</b>
Q.6 (i)	Parking/car park		2m	
	Golf course		2m	
	Public telephone		2m	
	Post office		2m	
(ii)	Clustered/Nucleated		2m	<b>Total 10m</b>

Q.7	Left Foreground	False	2m	<b>Total 10m</b>
	Centre Middleground	True	2m	
	Right Middleground	True	2m	
	Right Background	False	2m	
	Left Background	True	2m	
Q.8	Paris	E	2m	<b>Total 10m</b>
	Antrim-Derry Plateau	C	2m	
	Sambre Meuse	A	2m	
	Mezzogiorno	B	2m	
	Longford Co Council	D	2m	
Q.9	Farmer	Primary	2m	<b>Total 10m</b>
	Hotel receptionist	Tertiary	2m	
	Baker	Secondary	2m	
	Furniture maker	Secondary	2m	
	Doctor	Tertiary	2m	
Q.10(i)	Temperature	D	2m	<b>Total 10m</b>
	Rainfall	C	2m	
	Cloud	A	2m	
	Pressure	B	2m	
(ii)	True		2m	
Q.11(i)	Pie chart	B	2m	<b>Total 10m</b>
	Wind rose	D	2m	
	Bar chart	A	2m	
	Trend graph	C	2m	
(ii)	Valid statement		2m	
Q.12(i)	Viewpoint	C	2m	<b>Total 10m</b>
	National Secondary Road	D	2m	
	Picnic Site	B	2m	
	Coniferous Plantation	A	2m	
(ii)	1:50 000, 2cm to 1km		2m	

## **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
  - AND**
  - **One** question from Questions 4, 5 and 6
- **ONE** question from **Section 2 – Electives**

***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

#### A. 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:

- An area of natural woodland
- An area of land above 400 metres
- Dinish Island
- The Kenmare River
- A named lake.

#### Sketch Outline:

Limits/frame	1m
Proportions	2m (2/0)
Overall impression	2m graded (2/1/0)
	<b>Total 5m</b>

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

Showing	3m graded (3/2/1/0)
Labelled	2m
	<b>Total 25m</b>

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

**Total 30m**

**B. 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:**

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

**At least one SRP must explain a relevant process.**

**Allow named example for one SRP.**

**Total 40m**

**or**

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

**Any two processes @ 20m each**

**For each process:**

<b>Process named/stated</b>	<b>2m</b>
<b>Description and explanation 6 SRPs @ 3m each</b>	<b>18m</b>

**At least one SRP for description and one SRP for explanation.**

**Allow named example for one SRP.**

**Allow 1 SRP for relevant annotated diagram.**

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

**Total 40m**

**C. Plate Tectonics**

Describe and explain the theory of plate tectonics.

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

**At least one SRP for description and one SRP for explanation.**

**Allow 1 SRP for relevant annotated diagram.**

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

**Total 30m**

## Question 2

### A. Structure of the Earth

Examine the diagram of the structure of the earth above and answer each of the following questions.

- (i) In your answer book, name each of the layers of the earth labelled **A**, **B** and **C**.

<b>A</b>	<b>Inner Core</b>	<b>6m</b>
<b>B</b>	<b>Mantle</b>	<b>6m</b>
<b>C</b>	<b>Crust</b>	<b>6m</b>

- (ii) Explain briefly what is meant by the term *plate*.

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

- (iii) Explain briefly what causes plates to move.

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

**Total 30m**

### B. Rocks

- (i) Name **one** igneous rock, and name **one** metamorphic rock.

<b>Igneous rock named</b>	<b>3m</b>
<b>Metamorphic rock named</b>	<b>3m</b>

- (ii) Name **one** sedimentary rock, and name **one** Irish location where this rock is found.

<b>Sedimentary rock named</b>	<b>3m</b>
<b>Irish location named</b>	<b>4m</b>

- (iii) Describe how sedimentary rocks are formed.

**9 SRP's @ 3m each**    **27m**

**Allow 1 SRP for relevant annotated diagram.**

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

**Total 40m**

**C. Fold Mountains**

- (i) Name **one** example of fold mountains.

**Example of fold mountain named** **3m**

- (i) With the aid of a diagram(s), explain how fold mountains are formed.

**Diagram three items @ 2m each** **6m**

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

**Total 30m**

### Question 3

#### A. Rock Cycle

Examine the diagram of the rock cycle above and answer each of the following questions.

- (i) Name the category of rock at **X** and name **one** rock in this category.

**Category X: Sedimentary rock** **6m**

**Example: Sandstone, limestone etc.** **6m**

- (ii) Name the category of rock at **Y** and name **one** rock in this category.

**Category Y: Metamorphic rock** **6m**

**Example: Marble, quartzite etc.** **6m**

- (iii) Name any **two** ways rocks are used.

**Any two uses named @ 3m each** **6m**

**Total 30m**

#### B. Volcanoes

- (i) Define and name an example of each of the volcano types listed below:

- Active volcano
- Dormant volcano
- Extinct volcano.

**Three volcano types @ 6m + 5m + 5m**

**Volcano 1** **Definition** **3m**

**Example** **3m**

**Volcano 2** **Definition** **3m**

**Example** **2m**

**Volcano 3** **Definition** **3m**

**Example** **2m**

- (ii) Explain in detail how volcanoes occur.

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

**Allow 1 SRP for relevant annotated diagram.**

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

**Total 40m**

### **C. Human Interaction with Surface Processes**

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

- River processes
- Coastal processes
- Mass movement processes.

<b>Interaction named</b>	<b>3m</b>
<b>Examination 9 SRP's @ 3m each</b>	<b>27m</b>

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

**Allow 1 SRP for relevant annotated diagram.**

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

**Total 30m**

## REGIONAL GEOGRAPHY

### Questions 4 to 6

Attempt **ONE** question

#### Question 4

##### A. Irish Region

Draw a sketch map of Ireland.

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

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

**Sketch map of Ireland outline**

**6m graded (6/4/2/0)**

**Show and name 4 items @ 6m each:**

**Region named**

**2m**

**Region shown**

**4m graded (4/2/0)**

**Town/city named**

**2m**

**Town/city shown**

**4m graded (4/2/0)**

**River named**

**2m**

**River shown**

**4m graded (4/2/0)**

**Area of relief named**

**2m**

**Area of relief shown**

**4m graded (4/2/0)**

**Total 30m**



**B. Tourism in a European Region**

Name a **European** region (**not in Ireland**), that you have studied and answer each of the following questions.

**Naming a region** **1m**

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

**One tourist attraction named @ 2m**

**One tourist attraction named @ 1m** **3m**

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

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

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

**One problem 3 SRP's @ 3m each** **9m**

**Total 40m**

**C. Urban Growth in a Continental / Sub-Continental Region**

Describe and explain the reasons for the growth of any urban area in a **Continental / Sub-Continental** region (**not in Europe**), that you have studied.

**Naming an urban area** **3m**

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

**Expect at least one SRP for description and one SRP for explanation.**

**Total 30m**

## Question 5

### A. Types of Regions

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

- (i) Calculate **X**, the percentage of tertiary economic activity in Region B.  
**X = 60%** **6m**
- (ii) Is Region B a Core or a Peripheral region?  
**Core** **6m**
- (iii) Name an example of a Core region and an example of a Peripheral region.  
**Example of core region** **3m**  
**Example of peripheral region** **3m**
- (iv) Briefly describe **one** characteristic of a Core region.  
**Brief description 2 SRP's @ 3m each** **6m**
- (v) Briefly describe **one** characteristic of a Peripheral region.  
**Brief description 2 SRP's @ 3m each** **6m**

**Total 30m**

### B. Secondary Economic Activities – Irish Region

Discuss how any **two** of the following factors influence the development of manufacturing industry in an **Irish** region that you have studied:

- Availability of transport networks
- Access to raw materials
- Markets
- Government and European Union Policies.

<b>Region named</b>	<b>1m</b>
<b>Factor 1 explained 7 SRP's @ 3m each</b>	<b>21m</b>
<b>Factor 2 explained 6 SRP's @ 3m each</b>	<b>18m</b>

**Total 40m**

**C. Regional Development**

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

**Problem 1**

Description and explanation 5 SRP's @ 3m each **15m**

**Problem 2**

Description and explanation 5 SRP's @ 3m each **15m**

At least one SRP for description and one SRP for explanation for each problem.

Allow a named region for one SRP.

**Total 30m**

## Question 6

### A. 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:

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

**Sketch map of European region outline** **6m graded (6/4/2/0)**

**Show and name 4 items @ 6m each:**

<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>River</b>	<b>Named</b>	<b>2m</b>
	<b>Shown</b>	<b>4m graded (4/2/0)</b>
<b>Area of relief</b>	<b>Named</b>	<b>2m</b>
	<b>Shown</b>	<b>4m graded (4/2/0)</b>

**Total 30m**

### B. European Union Expansion

Describe and explain the impacts of European Union expansion on Ireland.

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

**At least one SRP for description and one SRP for explanation.**

**Total 30m**

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

Name a **Continental / Sub-Continental** region (**not in Europe**), that you have studied and answer each of the following questions.

**Naming a region** **1m**

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

**Primary economic activity named** **3m**

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

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

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

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

**Total 40m**

**SECTION 2 – ELECTIVES**

**Questions 7 to 12**

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

**Patterns and Processes in Economic Activities**

**OR**

**Patterns and Processes in the Human Environment**

## PATTERNS AND PROCESSES IN ECONOMIC ACTIVITIES

### Questions 7 to 9

#### Question 7

##### A. Aerial Photograph

Examine the aerial photograph of Kenmare accompanying this paper.

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

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

- An area of agricultural land
- **Two** connecting streets
- A roundabout
- A car park
- An area of waste ground.

##### Sketch Outline:

Limits/frame	1m
Proportions	2m (2/0)
Overall impression	2m graded (2/1/0)
	<b>Total 5m</b>

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

Showing	3 marks graded (3/1/0)
Labelled	2 marks
	<b>Total 25m</b>

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

**Total 30m**

**B. European Union Policy**

- (i) Examine the positive impacts of European Union policy/policies on Ireland.

**Impact named** **2m**  
**Positive impacts examined 6 SRP's @ 3m each** **18m**

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

- (ii) Examine the negative impacts of European Union policy/policies on Ireland.

**Impact named** **2m**  
**Negative impacts examined 6 SRP's @ 3m each** **18m**

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

**Total 40m**

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

**At least one SRP for description and one SRP for explanation.**

**Total 30m**



## Question 8

### A. Energy

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

- (i) Calculate **X**, the percentage of energy produced by gas in 2010.  
**X = 20%** **6m**
- (ii) Which fuel increased its energy production the most between 1995 and 2010?  
**Renewables** **6m**
- (iii) Explain briefly why energy production using this fuel type increased.  
**Brief explanation 2 SRP's @ 3m each** **6m**
- (iv) Name **two** sources of renewable energy.  
**Two named sources @ 3m each** **6m**
- (v) State **two** effects of burning fossil fuels on the environment.  
**Two effects stated @ 3m each** **6m**

**Total 30m**

### B. Multinational Company (MNC)

- (i) Name **one** multinational company located in Ireland.  
**Named MNC** **4m**
- (ii) Name **one** product manufactured by this multinational company and name **one** country (other than Ireland) where this product is sold.  
**Product named** **4m**  
**Country named** **4m**
- (iii) State where this multinational company is located in Ireland and explain in detail why it set up at this location.  
**Location stated** **4m**  
**Explanation 8 SRP's @ 3m each** **24m**

**Total 40m**

**C. 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.

<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 description and one SRP for explanation.**

**Total 30m**

## Question 9

### A. Economic Development

Human Development Index, 2014

Country	HDI
Niger	0.3
Norway	0.9
Sierra Leone	0.4
Portugal	0.8

Amended from www.undp.org

Examine the table above showing the Human Development Index (HDI) for a number of countries.

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

<b>Graph paper</b>	<b>2m</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>4 Items @ 4m each graded (4/2/0)</b>	<b>16m</b>

- (ii) In your answer book, explain briefly **one** reason why some countries have a high human development index.

<b>Brief explanation 2 SRPs @ 3m each</b>	<b>6m</b>
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**Total 30m**

### B. Environmental Impact

Describe and explain how economic activities impact on the environment, with reference to examples that you have studied.

<b>Examples named</b>	<b>3m + 3m</b>
<b>Description and explanation 8 SRP's @ 3m each</b>	<b>24m</b>

**At least one SRP for description and one SRP for explanation.**

**Total 30m**

**C. Economic Activity and Conflict**

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

- (i) State clearly, using a six-figure grid reference, where you would locate a pharmaceutical company.

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

- (ii) Using evidence from the Ordnance Survey map, explain why you selected this location.

**Map evidence** **3m**

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

- (iii) Describe how conflict may arise as a result of locating the pharmaceutical company in this area.

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

**Total 40m**

**PATTERNS AND PROCESSES IN THE HUMAN ENVIRONMENT**

**Questions 10 to 12**

**Question 10**

**A. Irish Population**

Irish Population by Age Group in 2014

<b>Age Group (years)</b>	<b>%</b>
0-14	21
15-64	66
65-84	11
85+	2

Amended from US Census Bureau

Examine the table above showing Ireland's population by age group in 2014.

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

<b>Graph paper</b>	<b>2m</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>4 Items @ 4m each graded (4/2/0)</b>	<b>16m</b>

- (ii) In your answer book, state **two** ways that population statistics are used.

<b>2 ways stated @ 3m each</b>	<b>6m</b>
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**Total 30m**

## B. Migration

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) Describe and explain the positive impacts of migration on Ireland.

**Impact named** **3m**

**Description and explanation 5 SRP's @ 3m each** **15m**

**At least one SRP for description and one SRP for explanation.**

- (iii) Describe and explain the negative impacts of migration on Ireland.

**Impact named** **3m**

**Description and explanation 5 SRP's @ 3m each** **15m**

**At least one SRP for description and one SRP for explanation.**

**Total 40m**

## C. Development of Urban Settlements

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

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

**Three reasons @ 10m each**

**For each reason:**

**Map evidence** **1m**

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

**Total 30m**

## Question 11

### A. Ordnance Survey Map - Historic Settlement

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 **name** each of the following:

- The built up area of Kenmare
- **Four different** examples of historic settlement evident on the map.

#### Sketch Outline:

Limits/frame	1m
Proportions	2m (2/0)
Overall impression	2m graded (2/1/0)
	<b>Total 5m</b>

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

Showing	3m graded (3/1/0)
Naming	2m
	<b>Total 25m</b>

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

**Total 30m**

**B. Traffic in Urban Areas**

- (i) Name **one** city where traffic congestion is a problem.

**City named** **4m**

- (ii) Explain the reasons why traffic congestion occurs in this city.

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

- (iii) Describe **one** solution to traffic congestion.

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

**Total 40m**

**C. Population**

‘Birth rates are influenced by many factors including income levels, culture and society and medical technology.’

Describe and explain the factors that influence birth rates.

**Factor named** **3m**

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

**At least one SRP for description and one SRP for explanation.**

**Allow another factor named for one SRP. All further factors must be described or explained.**

**Total 30m**



## Question 12

### A. Population Growth

Read the article above and answer each of the following questions.

- (i) According to the article, what is the current size of the Earth's population and what is the predicted population by 2100?  
**Current 7.2 billion** **3m**  
**Predicted by 2100 12.3 billion** **3m**
- (ii) **Calculate** the predicted increase in the Earth's population by 2100.  
**5.1 billion** **6m**
- (iii) Name **one** problem mentioned in the article that could be made worse by this predicted increase in population.  
**One problem named** **3m**
- (iv) Where is most of the population growth expected to take place?  
**Africa** **3m**
- (v) Explain briefly why this area is predicted to have the most growth in population.  
**Brief explanation 2 SRP's** **3m + 3m**
- (vi) Explain briefly **one** advantage of predicting population figures.  
**Brief explanation 2 SRP's** **3m + 3m**

**Total 30m**

### B. Developing World City

- (i) Name **one** city in the developing world.  
**Developing world city named** **3m**
- (ii) Describe and explain reasons for the rapid growth of this city.  
**Description and explanation 9 SRP's @ 3m each** **27m**  
**At least one SRP for description and one SRP for explanation.**

**Total 30m**

### C. Population Density and Distribution

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

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

**Grid reference** **2m graded (2/1/0)**

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

**Map evidence** **3m**

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

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

**Grid reference** **2m graded (2/1/0)**

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

**Map evidence** **3m**

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

**Total 40m**

## **Appendix 1**

### **List of Geographical Investigation Topics 2015**

1. Analysis of the relationship between land-use and pedestrians.
2. A study of population change.
3. Water pollution – A local study.
4. An investigation of the relationship between economic activity and a local area.
5. An investigation of the geomorphic process of erosion in a fluvial or coastal or glaciated environment.
6. An examination of traffic management in a local area.

## Appendix 2 – Marcanna Breise as ucht freagairt trí Ghaeilge

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

N.B. Ba chóir marcanna de réir an ghnáthráta a bhronnadh ar iarrthóirí nach ghnóthaíonn thar 75% d'iomlán na marcanna. Ba chóir freisin an marc bónais sin a shlánú síos.

Iomlán: 400 Gnáthráta: 10%

Bain úsáid as an ghnáthráta i gcás marcanna suas go 300. Thar an marc 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.

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