

**PART ONE – SHORT-ANSWER QUESTIONS – 80 MARKS**

Any 10 questions @ 8 marks each.  
Mark all questions attempted and award questions with highest mark.  
No grading.

<p>Q1 (i) D 1m F 1m B 1m C 1m A 1m E 1m (ii) True 2m</p>	<p>Q7 (i) River Suir 2m (ii) Waterford Cycling Trail 2m (iii) Forestry 2m (iv) R671 or R678 2m</p>
<p>Q2 (i) B 1m (ii) Shearing 1m C 1m Tension 1m A 1m Compression 1m (iii) Valid landform 2m</p>	<p>Q8 B - Right Background 2m C – Right Foreground 2m D – Left Middleground 2m E – Centre Background 2m</p>
<p>Q3 (i) Retreat 2m (ii) Accumulation 2m (iii) 54 2m (iv) Valid landform 1+1m</p>	<p>Q9 (i) Geomorphological 1m Cultural 1m Administrative 1m Peripheral 1m (ii) A (The Burren) 1m C (Gaeltachts) 1m D (Départements) 1m B (The Mezzogiorno) 1m</p>
<p>Q4 (i) B 1m C 1m D 1m A 1m (ii) E – Trellised 2m F – Dendritic 2m</p>	<p>Q10 (i) True 2m (ii) False 2m (iii) False 2m (iv) True 2m</p>
<p>Q5 (i) A – Stalactite 2m B – Pillar/Column 2m C - Stalagmite 2m (ii) True 1m False 1m</p>	<p>Q11 (i) 4 2m (ii) Sweden 2m (iii) 42.1 2m (iv) Benefit stated 1+1m</p>
<p>Q6 (i) Castle 2m (ii) S 206 225 2m (iii) 3.9 (km) 2m (iv) 41 (km<sup>2</sup>) 2m</p>	<p>Q12 (i) 6.9 (%) 2m (ii) Luxembourg 2m (iii) 82,652,147 2m (iv) Valid explanation 1m + 1m</p>

H Magma chamber  
B Weathering  
F Anticline

Q.9 (i) Gran Canaria  
(ii) 2,000m  
(iii) 6,000m  
(iv) Any valid explanation

Any 10 questions @ 8 marks each

**Q1** Parts (i),(iii) & (iv) @1m + 1m; Part (ii) @ 2m

**Q4 & 12** 8 parts @ 1m each

**Q2 & 3** Part (i) 4 parts @ 1m; Part (ii) 2@ 1+1m

**Q5** Parts (i), (ii) & (iv) 1+1m; Part (iii) 2m

**Q6 & 11** Parts (i),(ii) & (iii) @ 2m; Part (iv) 1+ 1m

**Q7, 8 9 and 10:** 4 parts @ 2 marks each

No grading

- Q.2 (i) C Focus  
D Epicentre  
A Seismic waves  
B Fault line  
(ii) Any two valid explanations

- Q.8 (i) 12%  
(ii) 12%  
(iii) SW  
(iv) SE

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<b>Q1</b> (i) 1.65 (metres) 2m (ii) 2 valid processes 1m + 1m (iii) 2 valid landforms 1m + 1m (iv) True 2m	<b>Q7</b> (i) Burial ground 2m (ii) 8.0 – 8.6(km) 2m (iii) Coniferous 2m (iv) 7 – 9 (km <sup>2</sup> ) 2m
<b>Q2</b> (i) C 1m (ii) Deposition 1m A 1m       Erosion 1m D 1m       Erosion 1m B 1m       Deposition 1m	<b>Q8</b> (i) North-East 2m (ii) S 117 717 2m (iii) N62 2m (iv) False 2m
<b>Q3</b> (i) E 1m C 1m A 1m B 1m D 1m F 1m (ii) True 2m	<b>Q.9</b> A Left middleground B Centre / Middle 2m C Right Background 2m D Left Background 2m E Centre Background 2m
<b>Q4</b> (i) 2 valid answers 1m+1m (ii) 2 valid answers 1m+1m (iii) (River) Rejuvenation 2m (iv) True 2m	<b>Q 10</b> (i) 5.4 (mm) 2m (ii) 8 (°C) 2m (iii) 8 (km/hr) 2m (iv) Prevailing 2m
<b>Q.5</b> (i) Sambre Meuse valley 1m The Burren 1m Mediterranean 1m Co. Cavan 1m Leinster Batholith 1m Islamic world 1m (ii) True 1m False 1m	<b>Q11</b> (i) India 2m (ii) 332 2m (iii) 26.28 (%) 2m (iv) Two advantages 1m +1m
<b>Q6</b> Even 2m Flat 2m Concave 2m V shaped valley 2m	<b>Q12</b> (i) One quarter / 25% 2m (ii) 116 (€ billion) 2m (iii) 50 (%) 2m (iv) Border Regions 2m

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Mark all questions attempted and award the 10 questions with highest mark.

No grading.

Q.1	(i)	Plateau	1m	Q.7(i)	<b>B</b>	1m
		Dendritic	1m		<b>A</b>	1m
		Trellised	1m		<b>D</b>	1m
		Swallow hole	1m		<b>C</b>	1m
	(ii)	Any valid answer	2m	Q.7(ii)	<b>W</b>	1m
	(iii)	Ribbon/Paternoster lake	2m		<b>Y</b>	1m
					<b>Z</b>	1m
					<b>X</b>	1m
Q.2	(i)	<b>A</b> Left Foreground	2m	Q.8(i)	<b>B</b>	1m
		<b>B</b> Centre Middleground	2m		<b>C</b>	1m
		<b>C</b> Right Background	2m		<b>A</b>	1m
	(ii)	Oblique	2m	Q.8(ii)	Compression	1m
					Shearing	1m
					Tension	1m
Q.3	(i)	False	1m	Q.8(iii)	True	2m
	(ii)	False	1m	Q.9(i)	F	1m
	(iii)	False	1m		E	1m
	(iv)	True	1m		A	1m
	(v)	False	1m		C	1m
	(vi)	True or false	1m		B	1m
	(vii)	False	1m		D	1m
	(viii)	True	1m	Q.9(ii)	True	2m
Q.4	(i)	597 (m)	2m	Q.10	(i) 998 (mb)	2m
	(ii)	G 685 365 / G 692 362	2m		(ii) Occluded	2m
	(iii)	1.5 (km)	2m		(iii) 1028 (mb)	2m
	(iv)	42 (km <sup>2</sup> ) approx.	2m		(iv) False	2m
Q.5(i)		Geomorphological	1m	Q.11	(i) 2 reasons	1m + 1m
		Administrative	1m		(ii) Valid ans.	2m
		Peripheral	1m		(iii) 515	2m
		Cultural	1m		(iv) Valid ans.	1m + 1m
Q.5(ii)		The Burren	1m			
		Co. Wexford	1m	Q.12	(i) Czech Rep	2m
		Northern Norway	1m		(ii) Germany	2m
		Islamic world	1m		(iii) 4	2m
Q.6	(i)	<b>A.</b> North American	1m		(iv) Valid ans.	1m + 1m
		<b>B.</b> African	1m			
	(ii)	South American	1m			
		Nazca	1m			
	(iii)	Pacific Ring of Fire	2m			
	(iv)	Constructive/Divergent	2m			

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<p>Q5 (i) A – Stalactite 2m B – Pillar/Column 2m C - Stalagmite 2m (ii) True 1m False 1m</p>	<p>Q11 (i) 4 2m (ii) Sweden 2m (iii) 42.1 2m (iv) Benefit stated 1+1m</p>
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<p>Q.1</p> <p>River Confluence 2m</p> <p>Headland 2m</p> <p>Ox bow lake 2m</p> <p>Tarn 2m</p>	<p>Q.7</p> <p>(i) W 006 533 2m</p> <p>(ii) 8.5 (km) 2m</p> <p>(iii) Star Shaped Fort 2m</p> <p>(iv) 18 (km<sup>2</sup>) 2m</p>
<p>Q.2</p> <p>(i) C 1m (ii) Chemical 1m</p> <p>A 1m Physical/Mechanical 1m</p> <p>B 1m Physical/Mechanical 1m</p> <p>D 1m Chemical 1m</p>	<p>Q.8</p> <p>B Centre Middleground 2m</p> <p>C Right Foreground 2m</p> <p>D Right Background 2m</p> <p>E Left Middleground 2m</p>
<p>Q.3</p> <p>(i) D 1m</p> <p>B 1m</p> <p>A 1m</p> <p>C 1m</p> <p>(ii) Rejuvenation 2m</p> <p>(iii) Valid reason 2m</p>	<p>Q.9</p> <p>(i) Meallagh River 2m</p> <p>(ii) Even 2m</p> <p>(iii) Glanaclougha Loop 2m</p> <p>(iv) Coniferous (Plantation) 2m</p>
<p>Q.4</p> <p>(i) C 1m</p> <p>D 1m</p> <p>B 1m</p> <p>A 1m</p> <p>(ii) (a) True 2m</p> <p>(b) True 2m</p>	<p>Q.10</p> <p>(i) Mayo 2m</p> <p>(ii) Four 2m</p> <p>(iii) 146 2m</p> <p>(iv) Isohels 2m</p>
<p>Q.5</p> <p>(i) C 1m</p> <p>E 1m</p> <p>F 1m</p> <p>D 1m</p> <p>B 1m</p> <p>A 1m</p> <p>(ii) True 2m</p>	<p>Q.11</p> <p>(i) 1070 2m</p> <p>(ii) 2020 2m</p> <p>(iii) 1314 2m</p> <p>(iv) Valid explanation 1 + 1m</p>
<p>Q.6</p> <p>(i) Urban 1m</p> <p>Geomorphological 1m</p> <p>Climatic 1m</p> <p>Administrative 1m</p> <p>(ii) Berlin 1m</p> <p>The Burren 1m</p> <p>Hot Desert 1m</p> <p>Co. Leitrim 1m</p>	<p>Q.12</p> <p>C 2m</p> <p>B 2m</p> <p>A 2m</p> <p>D 2m</p>



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<p>Q.6</p> <p>(i) Urban 1m</p> <p>Geomorphological 1m</p> <p>Climatic 1m</p> <p>Administrative 1m</p> <p>(ii) Berlin 1m</p> <p>The Burren 1m</p> <p>Hot Desert 1m</p> <p>Co. Leitrim 1m</p>	<p>Q.12</p> <p>C 2m</p> <p>B 2m</p> <p>A 2m</p> <p>D 2m</p>

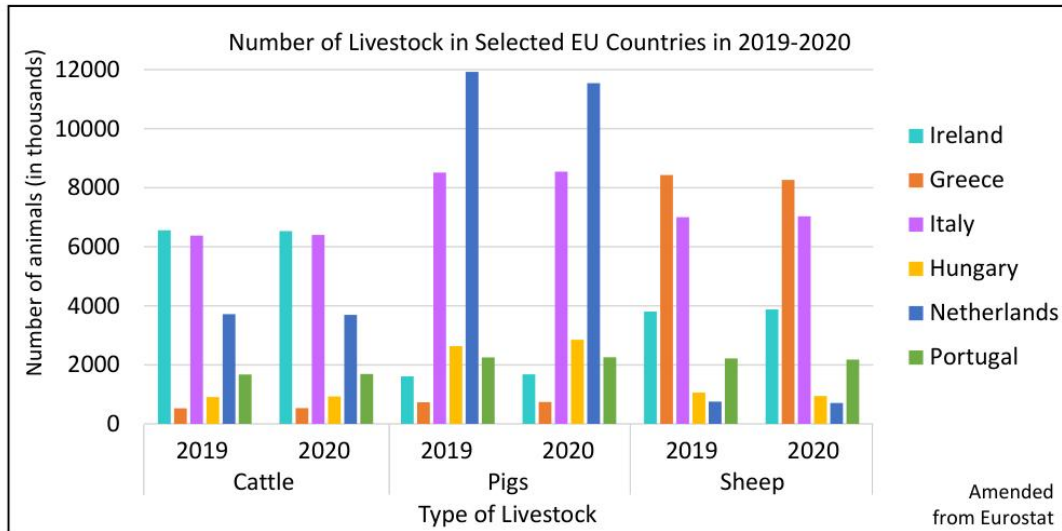
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Q.1 (i) Convection Current 2 marks (ii) Subduction 2 marks (iii) Ocean Trench 2 marks (iv) Lithosphere 2 marks	Q.7 (i) M 123 432 2 marks (ii) 6 - 7 (km <sup>2</sup> ) 2 marks (iii) 7.8 (km) 2 marks (iv) Irish Speaking Area 2 marks										
Q.2 (i) B 1 mark D 1 mark A 1 mark C 1 mark (ii) (a) True 2 marks (b) True 2 marks	Q.8 (i) Owenriff river 2 marks (ii) M 122 427 2 marks (iii) N59 2 marks (iv) North East 2 marks										
Q.3 (i) A 1 mark D 1 mark B 1 mark C 1 mark (ii) Valid answer 2 marks (iii) Valid answer 2 marks	Q.9 A Centre foreground 2 marks B Right background 2 marks C Left foreground 2 marks D Left middleground 2 marks										
Q.4 (i) @ 1 mark each <table><tr><th>Source Material</th><th>Igneous/Sedimentary Rock</th><th>Metamorphic Rock</th></tr><tr><td>Sand</td><td>Sandstone</td><td>Quartzite</td></tr><tr><td>Molten Rock</td><td>Basalt</td><td>Schist</td></tr></table> (ii) Valid answer 1+1 mark	Source Material	Igneous/Sedimentary Rock	Metamorphic Rock	Sand	Sandstone	Quartzite	Molten Rock	Basalt	Schist	Q.10 (i) 1013 2 marks (ii) False 2 marks (iii) Isobars 2 marks (iv) Occluded 2 marks	
Source Material	Igneous/Sedimentary Rock	Metamorphic Rock									
Sand	Sandstone	Quartzite									
Molten Rock	Basalt	Schist									
Q.5 (i) D 1 mark A 1 mark B 1 mark C 1 mark (ii) Valid answer 2 + 2 marks	Q.11(i) Australian 2 marks (ii) 1,034,132 2 marks (iii) 34.4 (%) 2 marks (iv) Valid answer 2 marks										
Q.6 @ 1 mark each <table><tr><th>Example</th><th>Location</th></tr><tr><td>Dingle</td><td>Co. Kerry</td></tr><tr><td>Ruhr Valley</td><td>Germany</td></tr><tr><td>Wicklow Mountains</td><td>Leinster</td></tr><tr><td>Paris Basin</td><td>France</td></tr></table>	Example	Location	Dingle	Co. Kerry	Ruhr Valley	Germany	Wicklow Mountains	Leinster	Paris Basin	France	Q.12 (i) 3 (%) 2 marks (ii) 13 (%) 2 marks (iii) True 2 marks (iv) Valid answer 1 +1 mark
Example	Location										
Dingle	Co. Kerry										
Ruhr Valley	Germany										
Wicklow Mountains	Leinster										
Paris Basin	France										

## Question 5

### 5A. Agriculture in the European Union



Examine the bar chart above showing the number of cattle, pigs and sheep in selected European Union countries in 2019 and 2020 and answer each of the following questions.

- Which animal did Greece have the highest number of in 2019?
- Name **two** countries from the chart above that had more than 2 million pigs in 2019.
- Which country, from the chart above, had more than 6 million of each type of livestock in 2020?
- Was there an increase or decrease in the number of pigs in the Netherlands between 2019 and 2020?
- Name **one** specific European Union policy which influences the development of agriculture.
- Explain briefly **one** benefit of Ireland having large numbers of cattle.
- Explain briefly **one** environmental problem associated with having large numbers of livestock.

[20m]

- |   |             |
|---|-------------|
| (i) Sheep                               | 2 marks     |
| (ii) Italy/Hungary/Netherlands/Portugal | 2 + 2 marks |
| (iii) Italy                             | 2 marks     |
| (iv) Decrease                           | 2 marks     |
| (v) Valid policy named                  | 2 marks     |
| (vi) Valid explanation                  | 2 + 2 marks |
| (vii) Valid explanation                 | 2 + 2 marks |

### 5B. Secondary Economic Activity – Continental / Sub-Continental Region

Examine how any **two** factors have influenced the development of secondary economic activity in a **Continental / Sub-Continental** region (not in Europe) that you have studied.

[30m]

- |                         |             |
|-------------------------|-------------|
| Factors named           | 2 + 2 marks |
| Examination of Factor 1 | 7/6 x SRP's |
| Examination of Factor 2 | 6/7 x SRP's |

- Credit 2 x SRP's for specific examples of secondary economic activity from examination.
- Do not accept European or Irish region.
- Examination without link to a named or clearly inferred region, 0 marks.
- Max 7 x SRP's if only one factor discussed.
- Max 1 x SRP's per factor if merely a description of the factor with no reference to development of secondary economic activity.

secondary economic activity.

- Credit a valid labelled sketch map for 1 x SRP from examination.
- Credit additional relevant information on the sketch map for a further 1 x SRP. This must be information not already awarded in the written account.
- Positive or negative interpretation is acceptable.

Annotation	Use	Marks
<span style="border: 1px solid red; padding: 2px;">N</span>	Factor named	2
<span style="border: 1px solid red; padding: 2px;">Ex</span>	Example of secondary economic activity	2
<span style="color: red;">✓<sub>2</sub></span>	Valid information worth 2 marks	2
<span style="color: red;">✓</span>	Surplus information	N/A
<span style="border: 1px solid red; padding: 2px;">Dg</span>	Valid diagram	2
<span style="border: 1px solid red; padding: 2px;">P1</span> / <span style="border: 1px solid red; padding: 2px;">P2</span>	Annotations relate to factor 1 /factor 2	N/A

### 5C. Population Dynamics

Account for population distribution throughout a **European** region (not in Ireland) that you have studied.

[30m]

Examination

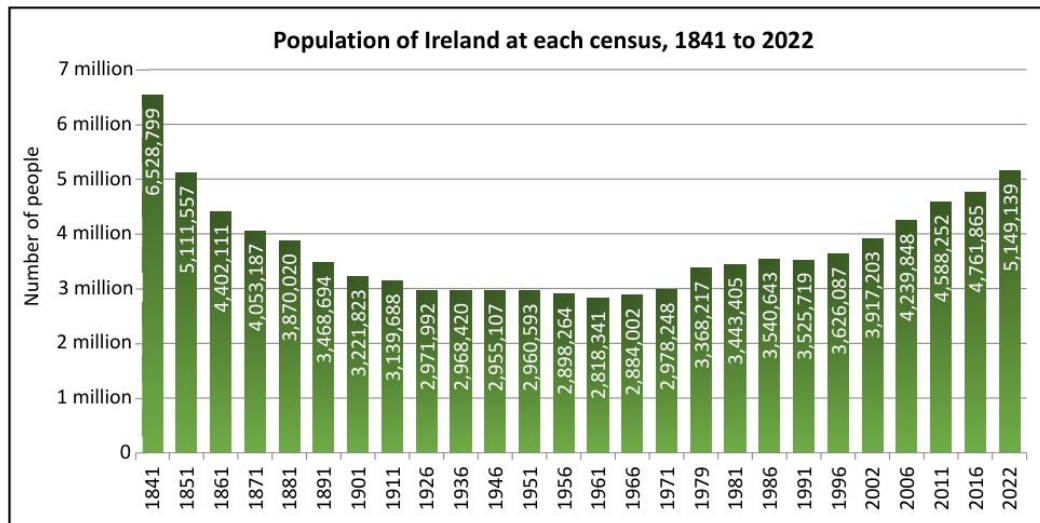
15 x SRP's

- Credit factors influencing the distribution of population for 2 x SRP's from examination. All further factors require examination.
- Credit 1 x SRP for a named location from within the region from examination.
- Do not accept Irish or Continental Sub / Continental region.
- Examination without reference to a named or clearly inferred region, 0 marks.
- Max 2 x SRP's if merely a description of population distribution without explanation.
- Credit a valid labelled sketch map for 1 x SRP from examination.
- Credit additional relevant information on the sketch map for a further 1 x SRP. This must be information not already awarded in the written account.
- If only one part of a region examined, max 8 x SRP's (question refers to throughout a region).

Annotation	Use	Marks
<span style="border: 1px solid red; padding: 2px;">N</span>	Factor named	2
<span style="border: 1px solid red; padding: 2px;">Ex</span>	Named location	2
<span style="color: red;">✓<sub>2</sub></span>	Valid information worth 2 marks	2
<span style="color: red;">✓</span>	Surplus information	N/A
<span style="border: 1px solid red; padding: 2px;">Dg</span>	Valid diagram	2

### Question 11

#### 11A. Population Characteristics



Amended from CSO

Examine the chart above showing the population of Ireland at each census from 1841 to 2022 and answer each of the following questions.

- Which census year had the highest population?
- Which census year had the lowest population?
- Was the population increasing **or** decreasing from 1996 to 2022?
- In how many censuses was the population at or over 4 million people?
- Calculate the change in Ireland's population between 1841 and 2022.
- Explain briefly **one** reason why Ireland's population increased since 2011.
- Explain briefly the term *natural change*.

[20m]

- |       |                   |             |
|-------|-------------------|-------------|
| (i)   | 1841              | 2 marks     |
| (ii)  | 1961              | 2 marks     |
| (iii) | Increasing        | 2 marks     |
| (iv)  | Eight             | 2 marks     |
| (v)   | 1,379,660         | 4 marks     |
| (vi)  | Valid explanation | 2 + 2 marks |
| (vii) | Valid explanation | 2 + 2 marks |

#### 11B. Changing Urban Functions

Examine how the functions and/or services of urban centres can change over time, with reference to an example(s) that you have studied.

[30m]

- |                               |             |
|-------------------------------|-------------|
| Functions/services identified | 2 + 2 marks |
| Example urban centre          | 2 marks     |
| Examination                   | 12 x SRP's  |



- All further functions/services identified require examination.
- An urban centre can be a city, a specific part of a named city or a town.
- Max 2 x SRP's for examination without a reference to named urban centre.
- Max 2 x SRP's for mere description of functions/services without a reference to change over time.
- Question is not tied to Ireland.

Annotation	Use	Marks
I	Functions/services identified	2
Ex	Example of Urban Centre	2
✓ <sub>2</sub>	Valid information worth 2 marks	2
✓	Surplus information	N/A

#### 11C. Future Urbanism

Discuss **two** challenges facing cities of the future.

[30m]

Challenge identified	2 + 2 marks
Discussion of challenge one	7/6 x SRP's
Discussion of challenge two	6/7 x SRP's

- Credit 1 x SRP for example of a city. This can be a city or part there of irrespective of size.
- Take broad interpretation of challenges facing cities of the future.

Annotation	Use	Marks
I	Challenge identified	2
Ex	Example of a city	2
✓ <sub>2</sub>	Valid information worth 2 marks	2

✓	Surplus information	N/A
P1 / P2	Annotations relate to discussion of challenge 1/ discussion of challenge 2	N/A

## Questions 13 - 24

### Outline Marking Scheme and Overall Coherence (OC) marking descriptors

#### Outline Marking Scheme:

Number of aspects	3 @ 20 marks each	4 @ 15 marks each
Identifying aspect	4 marks	3 marks
Discussion	8 x SRP's	6 x SRP's
Overall Coherence	20 marks graded*	20 marks graded*

#### Marking Descriptors Overall Coherence (OC):

In awarding Overall Coherence (OC) the examiner will consider how well the candidate deals with the set question and will follow the following marking descriptors:

*Overall Coherence (20 marks)		
Excellent	<b>20</b>	Excellent ability to relate knowledge to the set question. Excellent, comprehensive response demonstrating detailed knowledge of subject matter.
Very Good	<b>17</b>	Considerable strength in relating the knowledge to the set question. Very good response demonstrating very broad knowledge of the subject matter.
Good	<b>14</b>	Reasonable capacity to relate knowledge appropriately to the set question. Good response with worthwhile information. Broad knowledge of the subject matter demonstrated.
Fair	<b>10</b>	Some effort to relate knowledge to the set question. Some relevant information presented but insufficient application of information to set question.
Weak	<b>6</b>	Very limited engagement with set question. Identified some relevant information.
Poor	<b>0</b>	Failure to address the question resulting in a largely irrelevant answer.

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#### The following annotations are used in Questions 13-24

Annotation	Use	Marks
✓ <sub>3</sub> / ✓ <sub>4</sub>	Aspect identified	3 / 4
✓ <sub>2</sub>	Valid information worth 2 marks	2
✓	Surplus information	N/A
Dg	Valid illustration	2
Ex	Valid example	2



The following are used when marking the Overall Coherence		
EXC	Excellent	20
VG	Very Good	17
GD	Good	14
F	Fair	10
W	Weak	6
P	Poor	0

20. Examine how people express their culture and identity in everyday life.

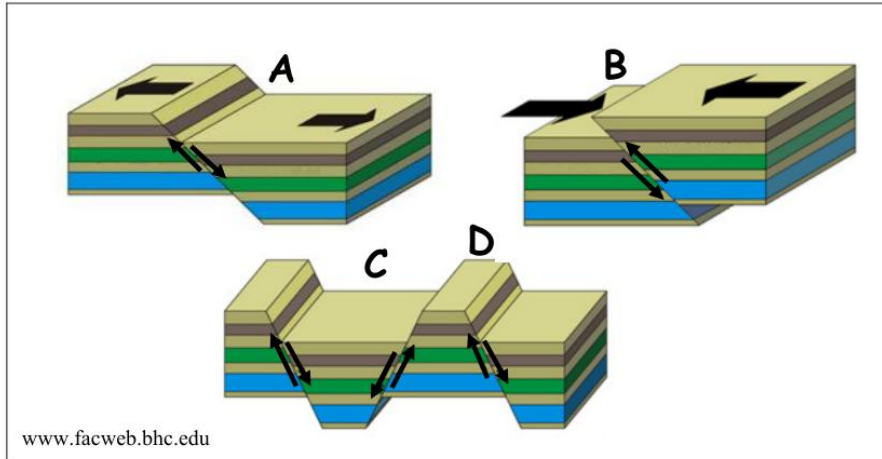
[80m]

Number of aspects	3 @ 20 marks each	4 @ 15 marks each
For each aspect:		
Identifying aspect	4 marks	3 marks
Discussion	8 x SRPs	6 x SRPs
Overall Coherence	20 marks graded*	20 marks graded*

- Focus of the question is on the ways culture and identity is expressed by people in everyday life.
- Select scheme according to number of aspects discussed.
- Allow for up to 3 examples to a max of 3 x SRP's from discussion (different examples and in different aspects).
- Allow for up to 2 labelled illustrations to a max of 2 x SRP's from discussion (different illustrations and in different aspects).

## Question 2

### A. Faulting and Landforms



Examine the diagrams above and answer the following questions.

- Name the type of fault at **A** and the type of fault at **B**.
- Explain briefly what causes the type of faulting at **A** or at **B**.
- Name the landform at **C** and the landform at **D** that result from faulting.

[20m]

Parts (i) & (iii) 8 marks each

Part (ii) 4 marks

- A** = Normal 4 marks

**B** = Reverse 4 marks
- Any valid explanation 2 + 2 marks
- C** = Rift Valley/Graben 4 marks

**D** = Block Mountain/Horst 4 marks

### B. Landform Development

Answer (i) or (ii).

- Explain with the aid of a labelled diagram(s) the formation of **one** landform of erosion that you have studied.

[30m]

Named landform	2 marks
Labelled diagram	4 marks (graded 4/2/0)
Explanation	12 x SRPs

- Credit extra relevant information on labelled diagram for 2 x SRPs
- Diagram without labelling 0 marks
- Credit 1 x SRP for two named examples from explanation.

Or

- Describe and explain **one** process of mass movement that you have studied.

[30m]

Process named	2 marks
Explanation	14 x SRPs

- Credit 1 SRP for relevant labelled diagram

➤ Credit 1 x SRP for relevant labelled diagram

➤ Credit extra relevant information on labelled diagram for 2 x SRPs

➤ Diagram without labelling 0 marks

➤ Credit one example from explanation

➤ Allow max 7x SRPs if description of mass movement only.

**C. Human Interaction**

Examine how humans interact with the rock cycle, with reference to **one** of the following:

- Mining
- Extraction of building materials
- Oil/gas exploration
- Geothermal energy production.

**[30m]**

Example 2 marks

Examination 14 x SRPs

➤ Question not tied to Ireland

➤ Credit 2<sup>nd</sup> named example for 1 x SRP

➤ Credit 1 x SRP for relevant labelled diagram

➤ Credit extra relevant information on labelled diagram for 2 x SRPs.