



# Coimisiún na Scrúduithe Stáit State Examinations Commission

LEAVING CERTIFICATE EXAMINATION, 2008

## GEOGRAPHY – ORDINARY LEVEL

FRIDAY 6 JUNE – AFTERNOON, 2.00 TO 4.50

Examination Number

For the Examiner's Use Only

Part One Short Questions	Total Marks	Adv Ex	App Ex
Question 1			
Question 2			
Question 3			
Question 4			
Question 5			
Question 6			
Question 7			
Question 8			
Question 9			
Question 10			
Question 11			
Question 12			
Accumulated Marks			
Disallowed Marks			
<b>Net Mark</b>			

**N.B. Remember to return this paper with your answer-book.  
Otherwise, marks will be lost**

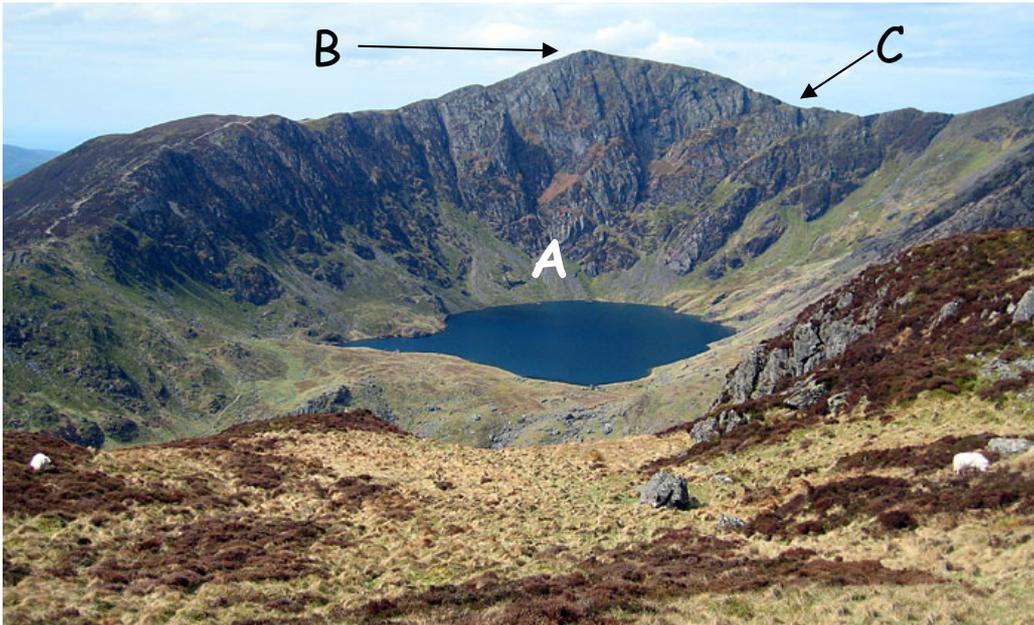
## PART ONE – SHORT-ANSWER QUESTIONS – 100 MARKS

Attempt **TEN** questions

All Questions carry equal marks

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

### 1. Glaciation



- (i) Examine the photograph above and then match each of the descriptions in the table below with **one** of the letters in the diagram.

Description	Letter
A deep hollow in a mountain called a <b>Corrie or Cirque</b>	
A knife like ridge called an <b>Arête</b> .	
A <b>Pyramidal Peak</b> caused by glacial erosion.	

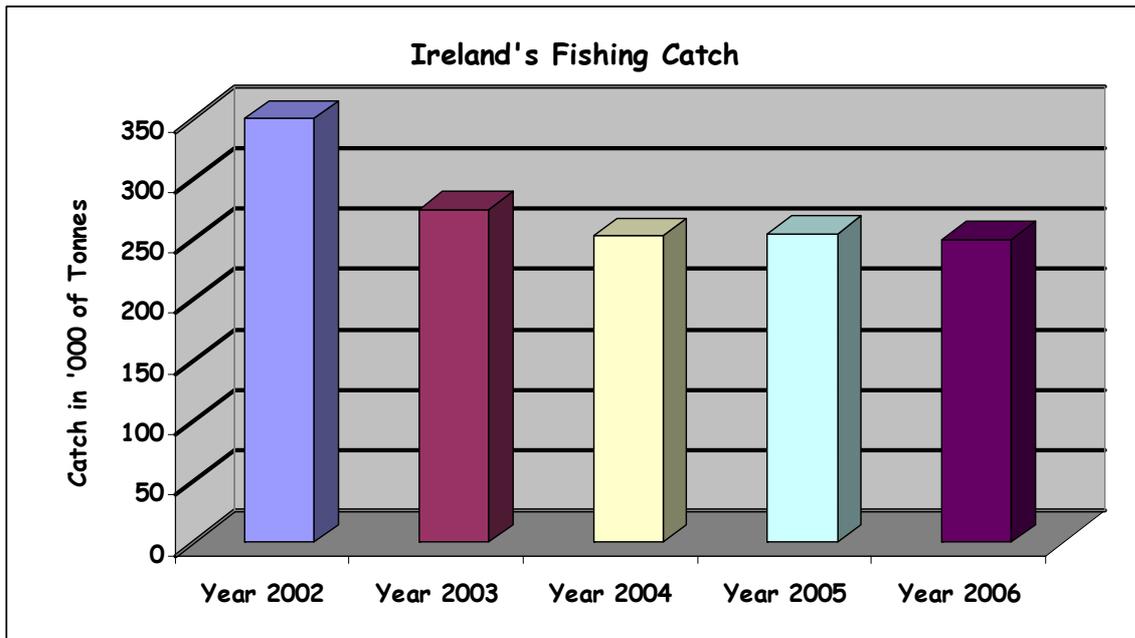
- (ii) Read the statement below and place an **X** in the correct box.  
“All of the features in the photograph above were formed by **glacial deposition**.”

a. True

b. False

[10 marks]

## 2. Fishing in Ireland



Study the above chart which shows Ireland's fishing catches between 2002 and 2006 and answer the following questions.

- (a) State whether the total catch has increased or decreased between 2002 and 2006.

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- (b) What was the total catch in the year 2003?

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- (c) In which year was the catch the highest?

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- (d) In which year was the catch the lowest?

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- (e) State **one** reason why the total fish catch is declining off the coast of Ireland.

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[10 marks]

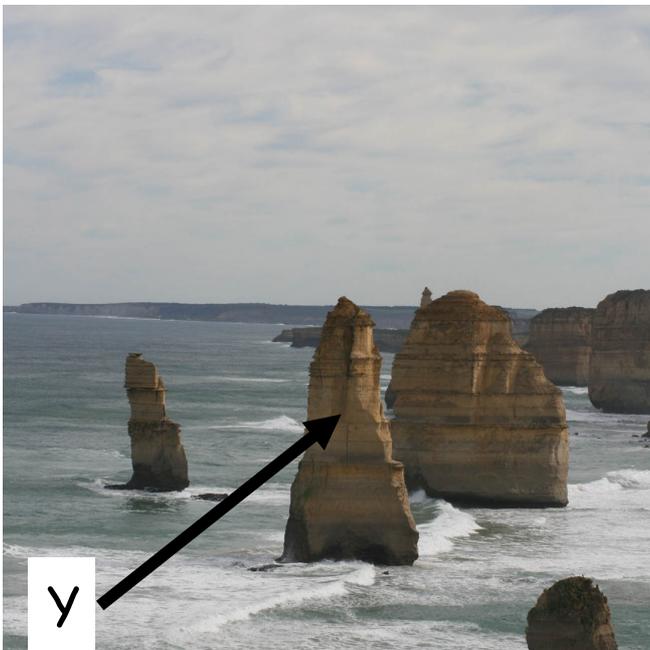
3. **Physical Features on Maps and Photographs**

Study the map and photograph extracts below and answer the questions.



- (i) The feature marked **X** on the map joins Omey Island to the mainland. Write its correct **name** in the box below.

- (ii) Was it formed by **Deposition** or **Erosion**? Write the correct answer in the box below.



- (iii) Name the feature marked **Y** on the photograph. Write its correct **name** in the box below.

- (iv) Was it formed by **Deposition** or **Erosion**? Write the correct answer in the box below.



- (v) Read the statement below and place an **X** in the correct box. "The river in the photograph is in the middle or lower course and meandering."

True

False

[10 marks]

**4. Ordnance Survey Map**

Examine the 1:50,000 Ordnance Survey extract accompanying this paper.

- (a) Name the road on which a dual carriageway can be found.

- (b) Measure the distance along the railway from the station in Galway to the point where it leaves the map at **M390261**.

**[10 marks]**

**5. Ordnance Survey Maps**

Examine the 1:50,000 Ordnance Survey extract which accompanies this paper.

- (i) Name the feature of antiquity which can be found at each of the following grid references:

▪ M286294 \_\_\_\_\_

▪ M370287 \_\_\_\_\_

▪ M343307 \_\_\_\_\_

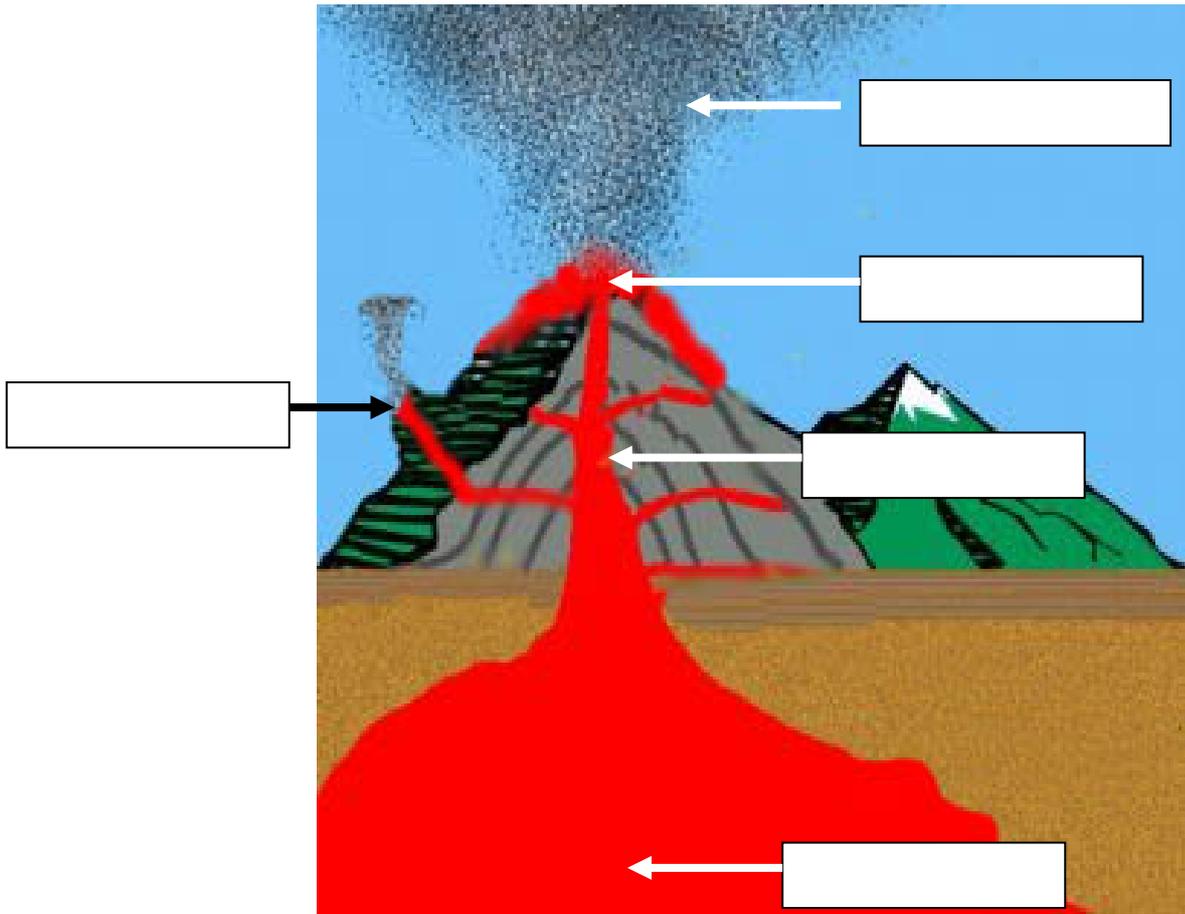
▪ M311246 \_\_\_\_\_

- (ii) In what general direction does the River Corrib flow?

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**[10 marks]**

## 6. Volcanoes



Source: softpedia.com

Examine the diagram of a volcano shown above.

Use the following terms to **fill in the blanks on the diagram**:

- Vent
- Secondary cone
- Ash cloud
- Crater
- Magma chamber

[10 marks]

## 7. European Regions

Link the **Region Type (letter)** with an **Example in Europe (number)** in the box provided. One is completed for you.

	Region Type		Example in Europe	Letter	Number
A	Industrial Decline	1	Alps	A	6
B	Mountain	2	North Italian Plain	B	
C	Climatic	3	Mezzogiorno	C	
D	Core	4	Mediterranean	D	
E	Cultural	5	Irish Gaeltacht	E	
F	Less Developed	6	Nord/Pas de Calais	F	

[10 marks]

## 8. Aerial Photograph

Examine the aerial photograph of Galway that accompanies this paper.

(i) Is the photograph vertical or oblique? \_\_\_\_\_

(ii) Using the normal notation (e.g. Right Background etc...) give the location of:

A Church: \_\_\_\_\_

A Housing Estate: \_\_\_\_\_

(iii) State the season during which you think the photograph was taken?

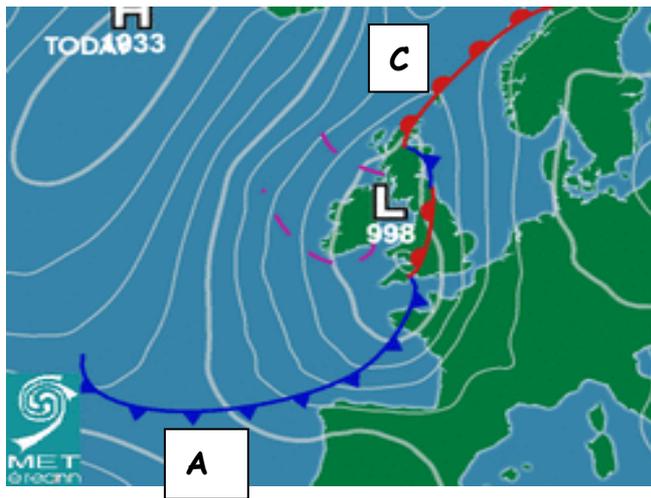
\_\_\_\_\_

(iv) List one reason to support your answer in (iii).

\_\_\_\_\_

[10 marks]

9. Weather Maps



(i) The weather chart shows a warm front and a cold front. Complete the box below by filling in the correct letter.

Type of Front	Letter
Warm Front	
Cold Front	

(ii) Read the statement below and place an **X** in the correct box.  
 “The barometric pressure over Ireland on the chart is **998mb**.”

- a. True
- b. False

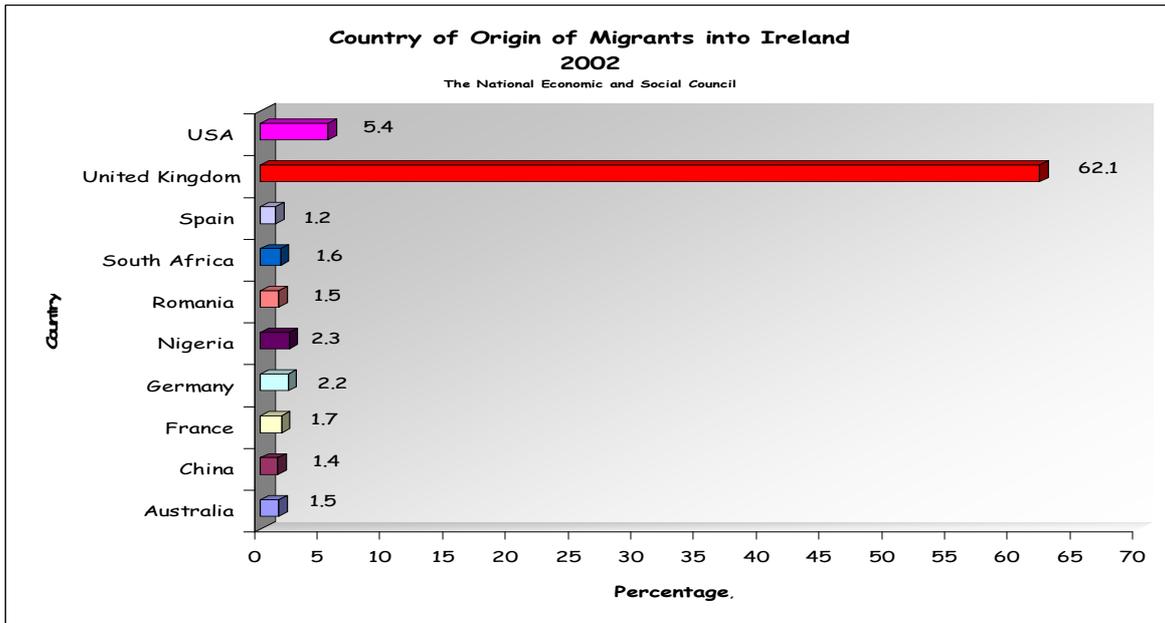
(iii) Read the following statement and tick the correct box with an **X**  
 The weather you would expect in Ireland if a **Warm Front** was over us would be:

Showers	<input type="checkbox"/>
Continuous light or heavy rain	<input type="checkbox"/>

(iv) Write down the name usually given to **Ireland’s climate** in the box below.

[10 marks]

## 10. Population Dynamics



Study the above chart which shows the home countries of migrants to Ireland in percentages and answer the following questions.

- (i) Give the **name** and **percentage** of the country from which the greatest number of migrants came and write your answers in the boxes below.

Name	
Percentage	

- (ii) Give the **name** and **percentage** of the country from which the lowest number of migrants came and write your answers in the boxes below.

Name	
Percentage	

- (iii) Calculate the **difference in percentage** between the two countries you named above and write the answer in the box below.

Percentage Difference	
-----------------------	--

[10 marks]

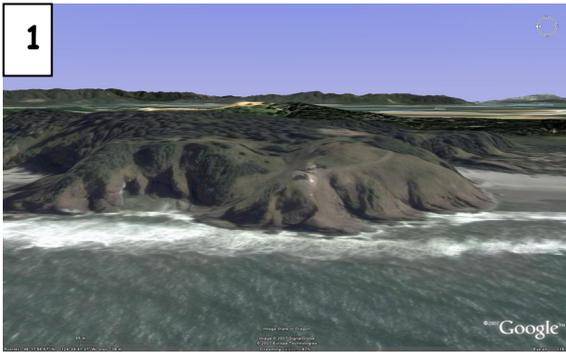
## 11. Physical features

The following are all features of **erosion** or **deposition**. In each case, state whether it was formed by erosion or deposition. One has been completed for you.

Feature	Erosion/Deposition
Sand Spit	
Interlocking Spurs	Erosion
Ribbon Lake	
Erratic	
Blowhole	
Waterfall	

[10 marks]

## 12. Satellite Images



Study the satellite photographs above and link the description with the correct number of the photograph in the table below. One has been completed for you

Description	Photograph
A glacier in the Alps	
Landslide in Pakistan	
Ox Bow lakes and meanders on a river.	
Desert in Libya in North Africa	
Cliffs on the west coast of Canada	
Rain forest in Australia	5

[10 marks]

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

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

- **Two** questions from Section 1
- **One** question from Section 2

***THESE QUESTIONS TO BE ANSWERED IN THE ANSWERBOOK***

**SECTION 1 - CORE**

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

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

**AND**

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

**Question 1**

**A. ORDNANCE SURVEY MAP**

Examine the 1:50,000 Ordnance Survey extract which accompanies this paper. Draw a sketch map of the area shown and on it **mark** and **name** the following:

- The outline of Galway Bay
- An area of coastal deposition
- The river Corrib
- A named island
- Lough Atalia (Loch na tSáile)

**[30 marks]**

**B. SURFACE PROCESSES**

Select any **one** of the following surface processes:

- Sea/marine action
- River action
- Glacial action
- Mass movement.

And explain the formation of any **two** Irish landforms caused by your selected process with the aid of diagrams.

**[40 marks]**

**C. HUMAN INTERFERENCE**

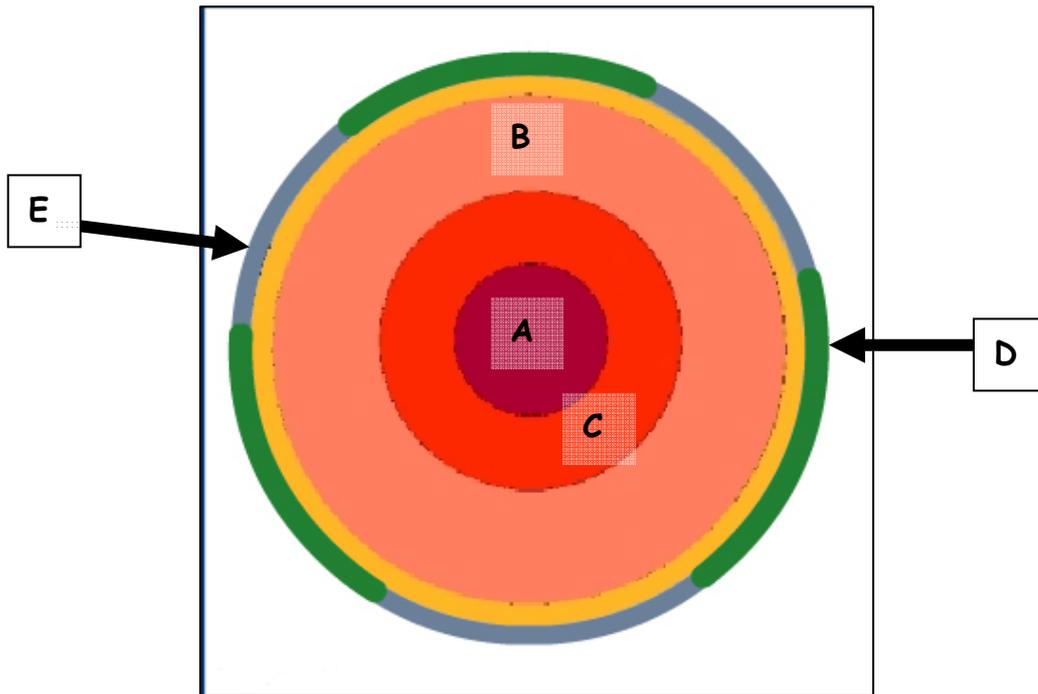


People try to control the natural processes at work in the landscape that may cause disasters such as landslides or flooding (as seen in the above photograph). With reference to an **example** which you have studied, describe and explain **one** way humans can control river processes or marine processes or mass movement.

**[30 marks]**

## Question 2

### A. Plate Tectonics



(Geofis-National Geography Support Service)

Examine the cut away diagram of the earth above. **In your answer book** match each of the following **names with a letter from the diagram**

- Continental Crust
- Outer Core
- Mantle
- Ocean Crust
- Inner Core

[30 marks]

### B. Earthquakes

Explain fully how earthquakes occur. In your answer refer to a **named example** which you have studied.

[40 marks]

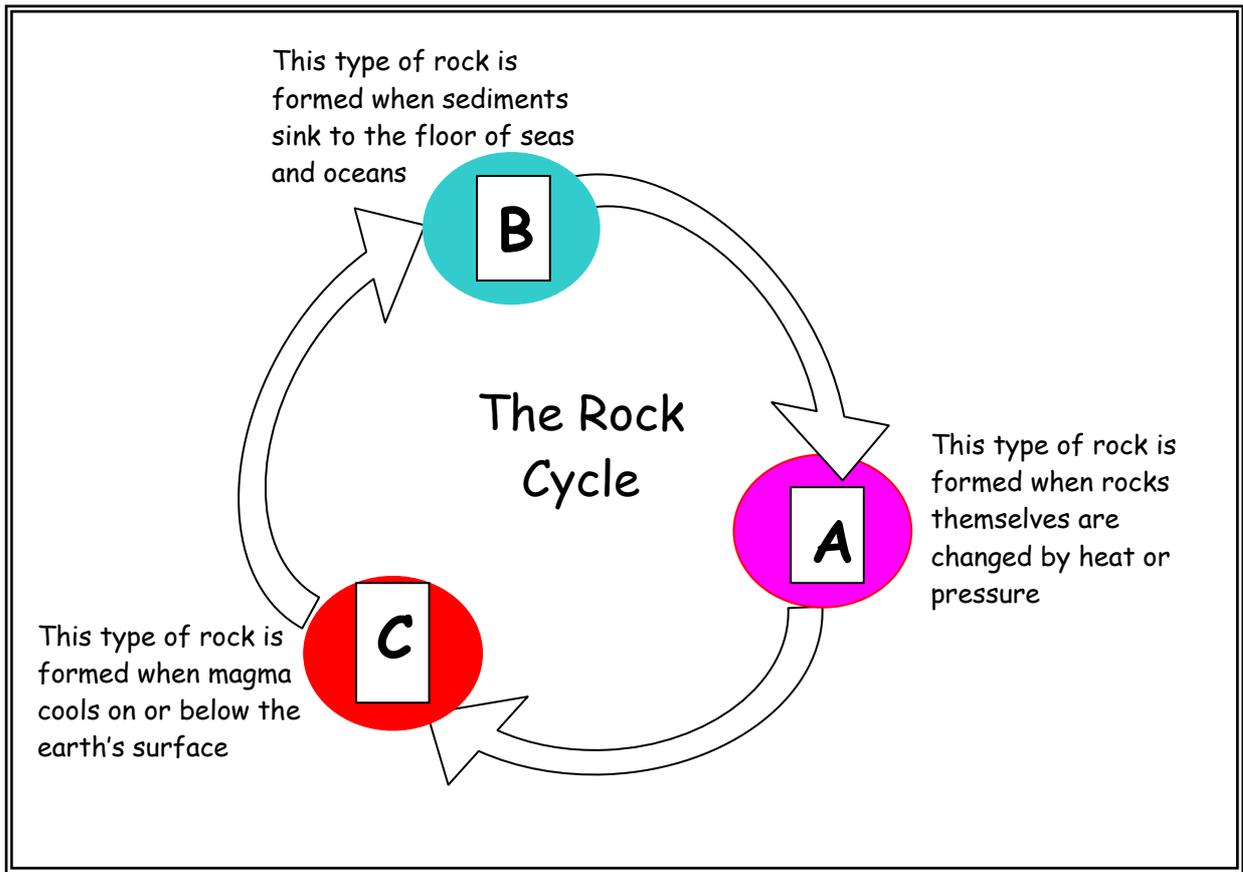
### C. Impact of Earthquakes

Describe **one** short term effect and **one** long term effect of an earthquake which you have studied.

[30 marks]

**Question 3**

**A. Rock Cycle**



With reference to the boxes labelled **A**, **B** and **C** on the above diagram of the Rock Cycle **state in your answer book** which letter represents **each** of the following:

- Sedimentary Rock
- Metamorphic Rock
- Igneous Rock

**[30 marks]**

**B. Karst Regions**

What is the **chief type of rock** found in Karst regions such as the Burren in County Clare?

Describe fully how this type of rock is formed.

**[30 Marks]**

**C. Karst Regions**

Explain with the aid of diagrams how any **two** underground landforms, found in a Karst region such as the Burren, are formed. Give a named example of each in your answer.

**[40 Marks]**

**REGIONAL GEOGRAPHY**

Attempt **ONE** question

**Question 4**

**A. Ireland - Regions**

Draw a sketch map of Ireland.

On it mark and name:

- **Two** contrasting regions
- **One** named mountain area **or one** named river in each region

**[30 marks]**

**B. Irish Regions**

Explain **two** factors which influence **either** agriculture **or** industry in **one** Irish region studied by you. Clearly state the name of the region in your answer.

**[40 marks]**

**C. Tourism in Regions**

Describe the influence which **either** Climate **or** the Physical Landscape has on the development of tourism in any **one European Region -Not Ireland-** which you have studied. Clearly state the name of the region in your answer.

**[30 marks]**

### **Question 5**

#### **A. Map Skills**

Draw a map of any **European Region -Not Ireland-** or **Continental/Sub-Continental** region which you have studied.

On it mark and name:

- Two cities
- One river
- One mountain range.

**[30 marks]**

#### **B. European Regions**

Name **one European Region -Not Ireland-** which you have studied. Describe the development of **either** agriculture **or** manufacturing industry in that region. Clearly state the name of the region in your answer.

**[30 marks]**

#### **C. Manufacturing Industry**

Examine the importance of manufacturing industry to any **one non-European Continental/Sub-Continental** region which you have studied. Clearly state the name of the region in your answer.

**[40 marks]**

**Question 6**

A. The statistics below refer to the number and reason why visitors come to Ireland.

Details of Visitors to Ireland by Reason for Journey, Statistic and Year						
	Number of Visitors to Ireland (Thousand)					
	1999	2000	2001	2002	2003	2004
Business	994	1,074	975	906	854	926
Holiday Leisure Recreation	3,306	3,346	3,177	3,242	3,334	3,413
Visit to Friends/Relatives	1,439	1,564	1,566	1,603	1,736	1,807
Other	328	328	273	314	445	429
Totals	6067	6312	5991	6065	6369	6575

(Source: Central Statistics Office)

- (i) In which year did the largest number of visitors come to Ireland?
- (ii) How many visitors came to Ireland in 2001?
- (iii) Write down the reason most visitors give for coming to Ireland from the table.
- (iv) How many gave “Visits to Friends/Relatives” as a reason in 2001?
- (v) In which year did the least number of visitors come to Ireland?

[30 marks]

**B. Irish Regions**

The European Union has had a major impact on the development of Irish regions through its policies and distribution of funds. Describe the influence of the EU on any **one Irish** region which you have studied. Clearly state the name of the region in your answer.

[30 marks]

**C. Primary Activities**

Primary activities include farming, fishing, mining and forestry. Describe the role which any **one** of these play in the economy of a **European -- Not Ireland-** region.

[40 marks]

**PATTERNS AND PROCESSES IN ECONOMIC ACTIVITIES**

Attempt **ONE** question

**Question 7**

**A. Ireland's Trading Partners**

The table below shows Ireland's main trading partners in 2006. Examine the table and answer the questions which follow in your answer book.

<b>Partner</b>	<b>Imports (€m)</b>	<b>Exports (€m)</b>
Great Britain and Northern Ireland	19,392.7	15,549.8
Other EU Countries	17,135.7	39,291.5
USA	6,813.1	16,207.1
Rest of World	17,426.1	15,811.6
<b>Total</b>	<b>60,767.6</b>	<b>86,860.0</b>

(Source: Central Statistics Office)

- (i) From which region does Ireland receive most imports?
- (ii) From which **two** regions do we import more than we export?
- (iii) To which partner does Ireland's largest amount of exports go?
- (iv) By how much did Ireland's exports exceed (greater than) imports in 2006?  
**[30 marks]**

**B. Ordnance Survey Map**

Examine the 1:50,000 Ordnance Survey extract accompanying this paper. Galway and the surrounding area is one of Ireland's main tourist regions.

- **Name** and give the **location by grid reference** of any **two** examples of tourist attractions on the map.
- Write a brief description of the location of **each** tourist attraction.  
**[40 marks]**

**C. Multi-National Companies [MNC]**

- (i) **Name** any Multi-National Company operating in Ireland, and state **where** in Ireland it is located.
- (ii) Explain any **one** advantage which multi-national companies bring to Ireland.
- (iii) Explain any **one** disadvantage associated with such companies operating in Ireland.  
**[30 marks]**

## Question 8

### A. Ordnance Survey Map

Examine the **1:50000 Ordnance Survey** extract and legend accompanying this paper.

Draw a sketch of the area covered by the extract. On it **mark** and **name** the following:

- An Industrial estate
- The N6 road
- The railway line
- Galway Airport
- The ferry route in Galway Bay

[30 marks]

### B. Renewable Energy in Ireland.



Source: SEI

- Name **two** renewable sources of energy which are suitable for use in Ireland.
- Describe and explain **each** renewable source of energy which you have named in (i).

[30 marks]

### C. The Environment

The following are major international environmental problems:

- Acid Rain
- Global Warming

In the case of **one** of these issues (Name your chosen issue in your answer):

- Describe **two** of the effects of the problem
- Describe **two** ways in which people try to overcome the problem.

[40 marks]

### Question 9

#### A. Economies of countries

The table shows statistics for five countries. Examine the table and in your answer book answer the questions which follow.

	Belgium	Brazil	Cambodia	Ireland	USA
GNI per capita(US\$)	38,600	4,730	480	45,580	44,970
Life Expectancy	79	71	57	79	78
Population (millions)	10.5	188.7	14.4	4.2	299.0
Population Growth (%)	0.1	1.2	2.0	1.2	0.9
School Enrolment (%)	98.7	95.3	98.9	96.3	92.1

GNI = Gross National Income

(Source: World Bank)

- (i) Which country has the lowest life expectancy rate?
- (ii) Which country has the highest school enrolment figure?
- (iii) Which country has the lowest population growth?
- (iv) What is Ireland's Gross National Income (GNI)?
- (v) Which country do you think is the least developed (Poorest)?

[30 marks]

#### B. World Economies

- (i) Name **one** developed and **one** developing economy which you have studied.
- (ii) In the case of **each** of the economies named in (i), explain **one** problem associated with each.

[40 marks]

#### C. The European Union

Membership of the European Union has been a major factor in Ireland's economic development. Describe **two** ways in which Ireland has gained from its European Union membership.

[30 marks]

**Question 10**

**A. Population in Ireland**

The table below refers to the population of Connaught in 2006.

County	Total Population
Galway County	159,256
Leitrim	28,950
Mayo	123,839
Roscommon	58,768
Sligo	60,894

*(Source: CSO)*

Use graph paper to draw a graph that shows the data in the table above.

**[30 marks]**

**B. Ordnance Survey Map**

Examine the **1:50000 Ordnance Survey** extract and legend accompanying this paper.

Imagine that you have been given the task of locating a new housing estate.

- (i) Using a **grid reference** state clearly where you would locate the housing estate.
- (ii) Explain clearly **one** reason in favour of this location and **one** reason against it.

**[30 marks]**

**C. Migration**

- (i) Explain **two** reasons why young people might migrate from places in the West of Ireland to the Dublin region.
- (ii) Explain **two** problems caused by this migration for the Dublin region.

**[40 marks]**

### Question 11

#### A. Aerial Photograph

Examine the aerial photograph accompanying this paper.

Draw a sketch map of the area shown on the photograph. On your sketch map mark and name the following:

- A recreational (leisure) area
- **Two** churches
- The CBD (Central Business District)
- A modern housing estate

[30 marks]

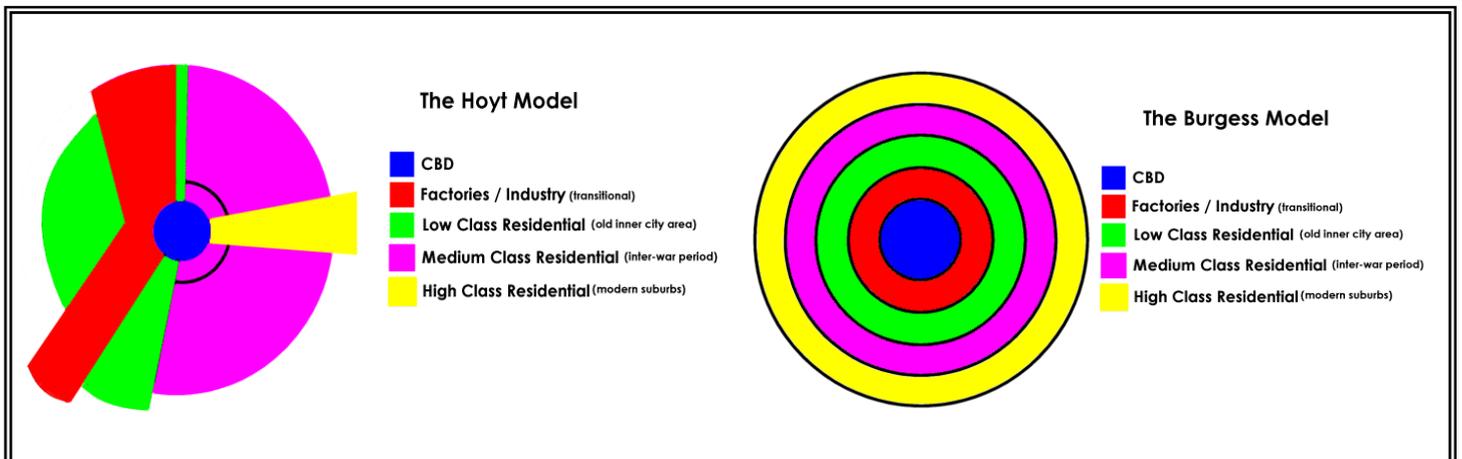
#### B. Urban Studies

“Many cities in the Developing World are expanding (growing) rapidly because of inward migration from the countryside.”

- Name any expanding city in the Developing World studied by you.
- Explain **two** problems faced by this city because of its growing population.

[30 marks]

#### C. Land Use Models



Examine the two urban land use models from Hoyt and Burgess shown above.

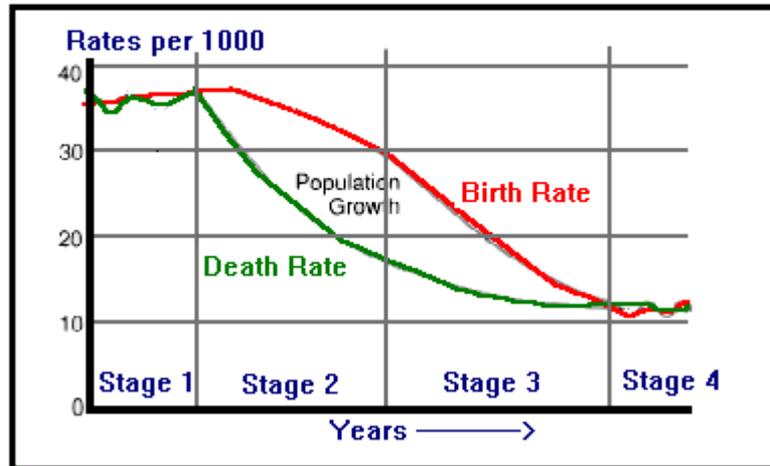
Explain **two** main differences between the two models.

[40 marks]

**Question 12**

**A. Population change**

**The Demographic Transition**



(Source: Internet Geography)

Examine the demographic transition model above which shows population change over time in a Developed Country. In your answer book answer the following questions:

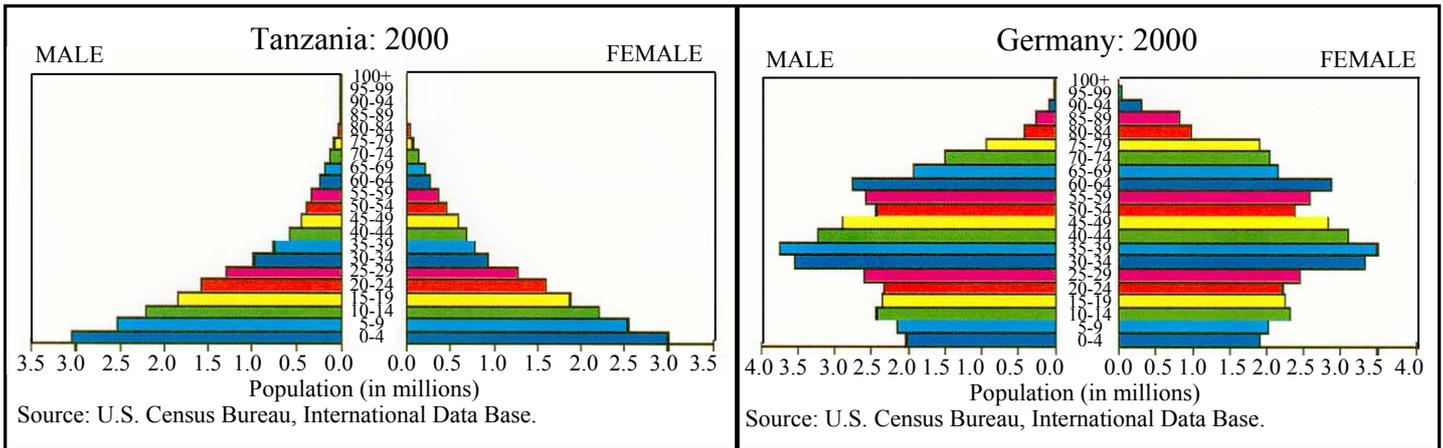
- (i) Name one stage in the diagram where the birth rate and death rate are nearly equal?
- (ii) At what stage in the diagram is the natural increase highest?
- (iii) Study the chart again and **rewrite** the paragraph below into your answer book and fill in the blanks using words from the box to help you.

'Natural population increase is \_\_\_\_\_ in stage 1. It \_\_\_\_\_ rapidly in stage 2 as the birth rate rises and the death rate \_\_\_\_\_. By Stage 4 natural increase slows down because the birth rate and death rate are almost \_\_\_\_\_.'

- risers
- low
- equal
- falls

[30 marks]

## B. Population Pyramids



(Source: US Census Bureau)

Examine the population pyramids above for Tanzania and Germany in 2000. Describe **two** differences between the population structure of Tanzania and Germany as shown by the pyramids.

[30 marks]

## C. Traffic Problems

Examine the aerial photograph accompanying this paper.

- (i) Locate **two** areas where traffic congestion can create problems using the usual notation (e.g. Right Background etc. ....)
- (ii) Select **one** area chosen in part (i) and using evidence from the photograph, explain why traffic congestion might occur at that location.
- (iii) Examine in detail **one** possible solution to this traffic congestion.

[40 marks]

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