

WARNING

You must return this paper with your answer book. Otherwise you will lose marks.

Write your Examination Number here:



Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2015

GEOGRAPHY – HIGHER LEVEL

SECTION 1 – FOLDER (60 marks)

FRIDAY, 5 JUNE – MORNING, 9.30 – 11.30

Folder Marking Grid				
Questions		Mark	Examiner	Advising Examiner
	@	3		
	@	2		
	@	1		
	@	0		
Total Mark				

NOTE: SECTION 2 OF THIS PAPER IS SUPPLIED SEPARATELY

SECTION 1 (60 marks)

Answer **ALL** questions.
You have a choice within three questions.
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1. WEATHERING



The photograph above shows limestone rock that has been weathered.

Circle the correct answer in each of the following statements.

- (i) This area of weathered limestone is called a ***limestone pavement*** / ***limestone cave***.
- (ii) This feature was formed by ***mechanical weathering*** / ***chemical weathering***.
- (iii) An example of this feature can be found in ***the Burren*** / ***the Giant's Causeway***.

2. ROCKS

Igneous, Sedimentary and Metamorphic are the main rock-groups.

Complete each of the following sentences by inserting the correct rock-group.

- (i) Rocks formed as a result of great heat or pressure are known as _____.
- (ii) Rocks formed from cooled molten volcanic material are known as _____.
- (iii) Rocks formed from compressed remains of animals, plants or other rock materials are known as _____.

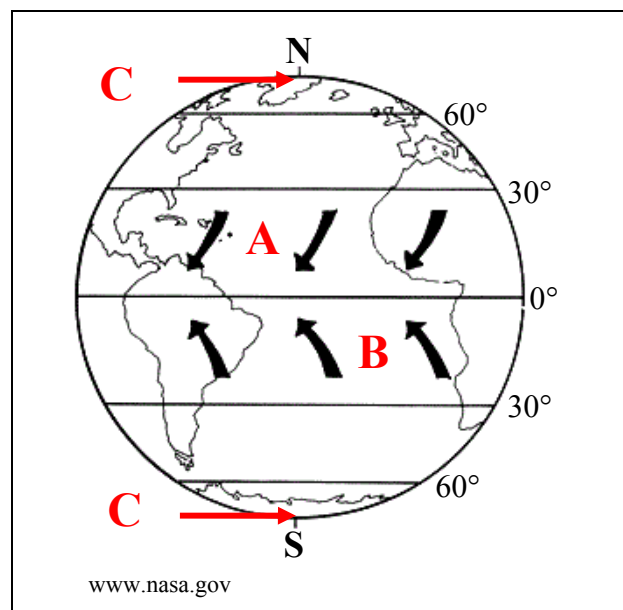
3. RIVERS

Complete each of the following sentences by using the correct term from the table below.

Tributary	Confluence	Estuary
Source	River basin	Watershed

- (i) The area drained by a river and its tributaries is known as the _____.
- (ii) The place where a tributary joins the main river is known as the _____.
- (iii) The tidal mouth of a river is known as the _____.

4. GLOBAL PATTERNS

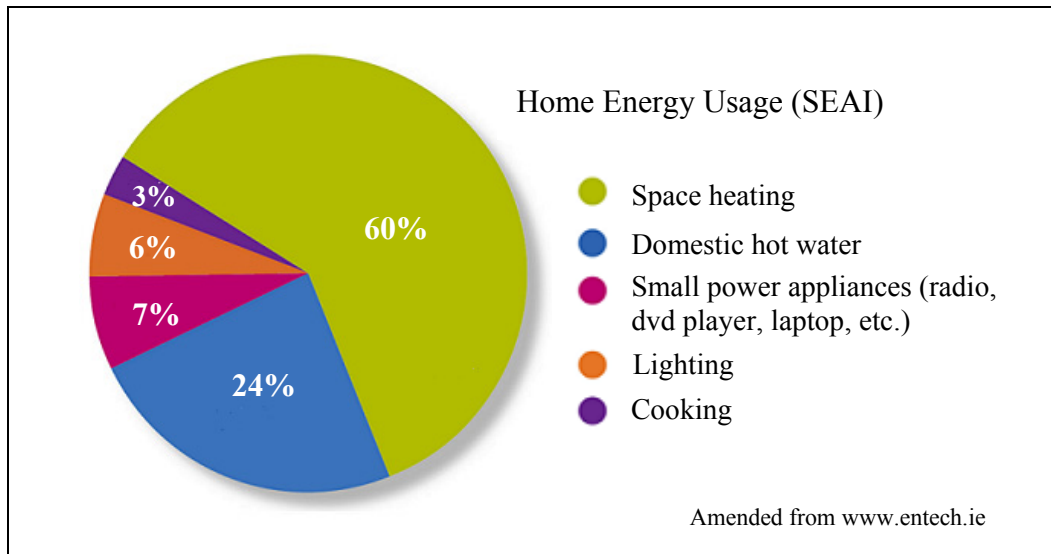


Examine the diagram above.

Circle the correct answer in each of the following statements.

- (i) The winds at **A** are *warm winds* / *cold winds*.
- (ii) The winds at **B** are *south-easterly trade winds* / *north-easterly trade winds*.
- (iii) An area of *high pressure* / *low pressure* is found at **C**.

5. ENERGY USAGE



Examine the pie chart above showing home energy usage in Ireland in 2013.

Indicate which **three** statements below are correct by ticking (✓) the correct box.

1. Small power appliances accounted for 31% of home energy usage.
2. Lighting and cooking combined, accounted for 9% of home energy usage.
3. The percentage usage for small power appliances was greater than the percentage usage for domestic hot water.
4. Space heating accounted for the greatest percentage of home energy use.
5. Domestic hot water accounted for nearly a quarter of home energy use.

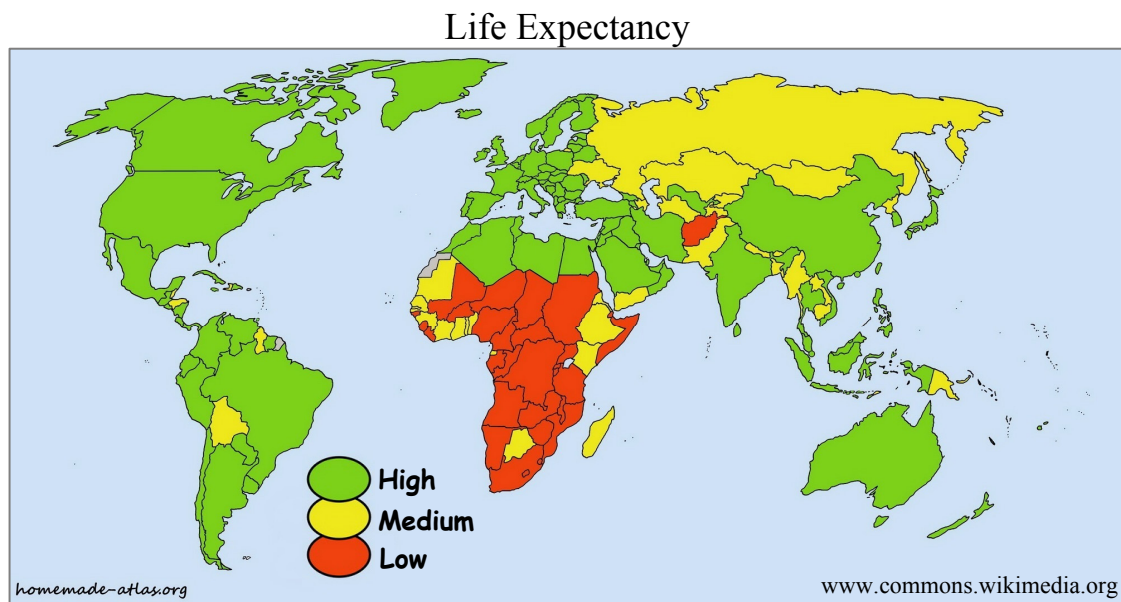
1, 2, 3 ☐

1, 3, 5 ☐

2, 3, 4 ☐

2, 4, 5 ☐

6. LIFE EXPECTANCY



Examine the map above showing life expectancy in the world.

Circle the correct answer in each of the following statements.

- (i) Germany has a **high** / **low** life expectancy.
- (ii) Mali has a **medium** / **low** life expectancy.
- (iii) Most countries with a low life expectancy are in the continent of **Africa** / **Asia**.

7. MIGRATION

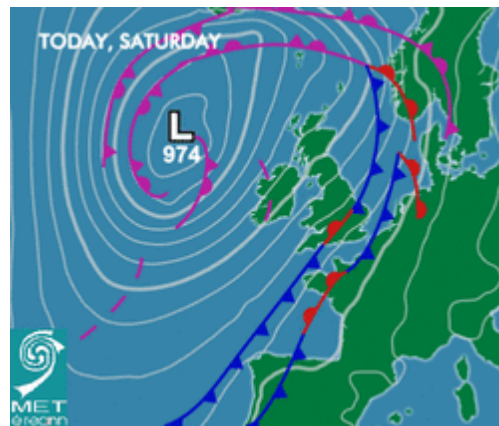
The table below shows a push factor, a pull factor and a barrier to human migration.

Immigration law	Civil unrest	Better services
-----------------	--------------	-----------------

Complete each of the following sentences using the correct term from the table above.

- (i) A push factor is _____.
- (ii) A pull factor is _____.
- (iii) A barrier to migration is _____.

8. WEATHER CHART



Examine the weather chart above.

Circle the correct answer in each of the following statements.

- (i) The area of low pressure in the Atlantic is called a(n) *depression* / *anticyclone*.
- (ii) The weather front approaching Ireland will bring *calm* / *windy* weather conditions.
- (iii) Lines joining places of equal atmospheric pressure are called *isohyets* / *isobars*.

9. MANUFACTURING

A footloose industry is generally:

An industry that is located near raw materials.

☐

An industry that is not tied to any one location.

☐

An industry that does not receive grants from the government.

☐

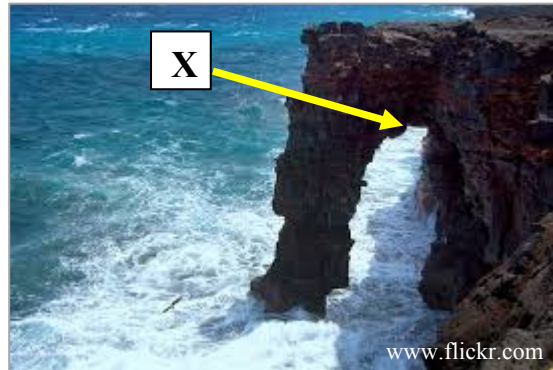
An industry that employs third level graduates only.

☐

Tick (✓) the correct box.

ANSWER EITHER 10A OR 10B

10A. COASTS



Circle the correct answer in each of the following statements.

- (i) The feature labelled **X** in the photograph above is a *sea arch / tombolo*.
- (ii) It is a feature of coastal *deposition / erosion*.
- (iii) It was formed by the process of *hydraulic action / longshore drift*.

OR

10B. GLACIATION



Circle the correct answer in each of the following statements.

- (i) The feature in the photograph above is a *fjord / corrie*.
- (ii) It is a feature of glacial *erosion / deposition*.
- (iii) It was formed by the process(es) of *hydraulic action / plucking and abrasion*.

ANSWER EITHER 11A OR 11B

11A. URBANISATION

In the boxes provided, match each of the letters in **Column X** with the number of its pair in **Column Y**. One match has been completed for you.

Column X		Column Y		X	Y
A	Urban sprawl	1	A core area of business and shopping activity.	A	
B	Dormitory town	2	Old buildings replaced by modern structures.	B	4
C	CBD	3	The spread of urban development into rural areas.	C	
D	Urban renewal	4	The main function of this town is residential.	D	

OR

11B. HISTORIC SETTLEMENT

Indicate whether each of the following statements is true or false by circling the correct option in each case.

- (i) Castles are evidence of Norman settlement.

True

False

- (ii) Standing stones are evidence of Pre-Christian settlement.

True

False

- (iii) Ringforts are evidence of plantation settlement.

True

False

ANSWER EITHER 12A OR 12B

12A. WEATHER

Clouds at very high altitude, associated with fair weather conditions are known as:

- | | |
|----------------|--------------------------|
| Cumulus clouds | ☐ |
| Cirrus clouds | ☐ |
| Stratus clouds | ☐ |

Tick (✓) the correct box.

OR

12B. CLIMATE

The climate experienced between 55° north and the Arctic Circle is known as:

- | | |
|---------------|--------------------------|
| Equatorial | ☐ |
| Savanna | ☐ |
| Boreal | ☐ |
| Mediterranean | ☐ |

Tick (✓) the correct box.

13. AID

In the boxes provided, match each of the letters in **Column X** with the number of its pair in **Column Y**. One match has been completed for you.

Column X		Column Y		X	Y
A	Tied aid	1	Aid given for natural disasters.	A	
B	Emergency aid	2	Aid given with certain conditions.	B	
C	Development aid	3	Aid given by governments to world organisations.	C	4
D	Multi-lateral aid	4	Aid given for long-term development.	D	

14. EXPLOITATION OF IRELAND'S PEAT BOGS

Indicate which **three** statements below are correct by ticking (✓) the correct box.

1. A ditcher is a machine used to drain bogs.
2. Raised bogs are mainly found in mountainous areas.
3. A miller is a machine used to scrape the peat from the surface of the bog.
4. Peat is a renewable natural resource.
5. Briquettes are processed peat.

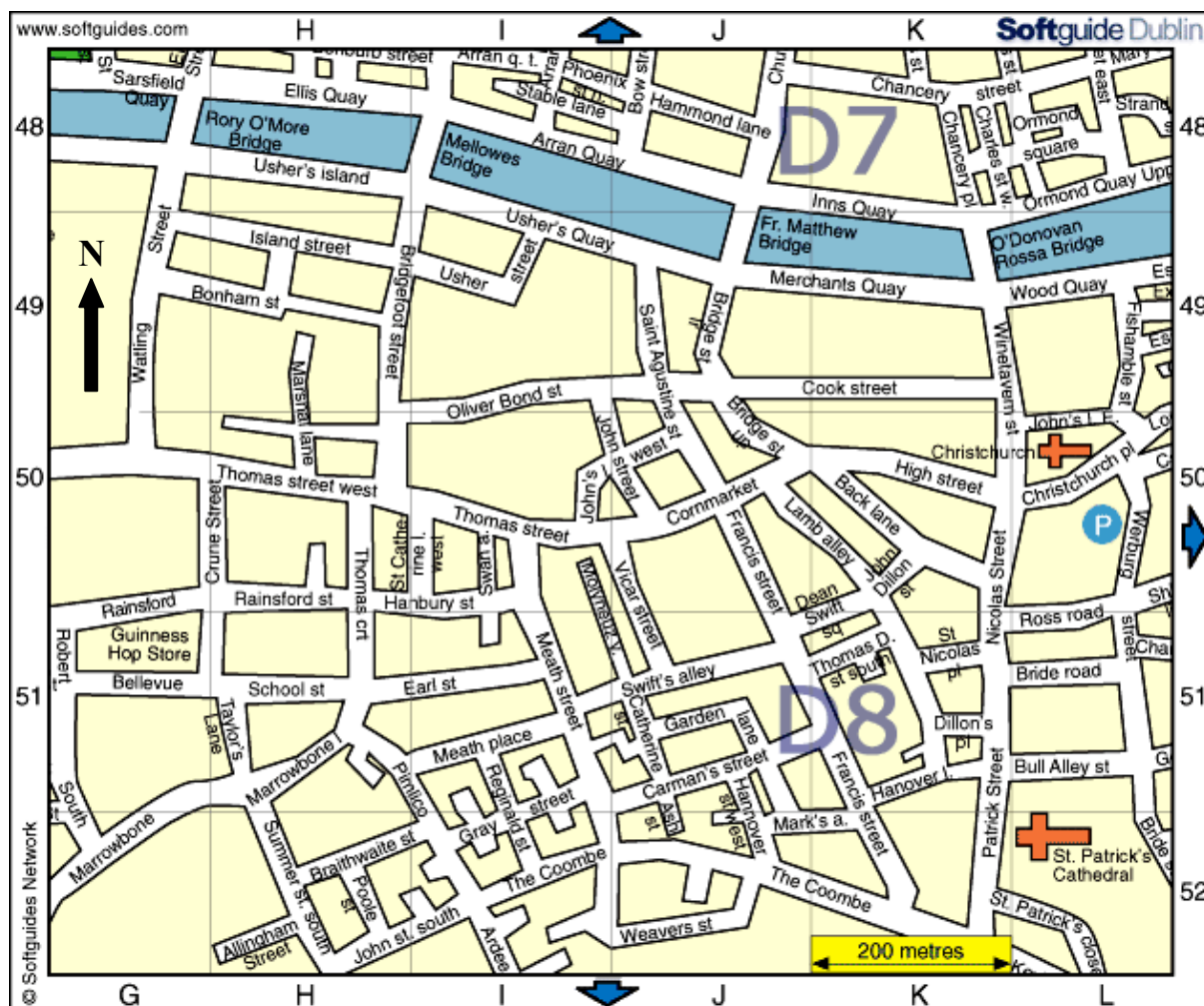
1, 2, 3 ☐

1, 3, 5 ☐

2, 3, 4 ☐

2, 4, 5 ☐

15. STREET MAP



Examine the street map above which shows part of Central Dublin.

Name the street that you would arrive at, having followed the directions below.

- Walk along Back Lane (grid K50) in a south-easterly direction
- Turn right onto Nicolas Street and walk in a southerly direction
- Take the third street on the left.

High Street

☐

Ross Road

☐

Bull Alley St

☐

The Coombe

☐

Tick (✓) the correct box.

16. TOURISM

Overseas Visitors to Ireland, 2013

Country / Region	No. Visitors
United Kingdom	2,929,000
United States	1,036,000
Germany	483,000
France	434,000
Benelux	265,000
Spain	263,000
Italy	234,000
Scandinavia	210,000
Oceania	188,000
Canada	123,000
Rest of Europe	575,000
Rest of World	248,000
Total	6,988,000

CSO

Examine the table above showing information regarding overseas visitors to Ireland in 2013.

Indicate whether each of the following statements is true or false by circling the correct option in each case.

- (i) The largest number of visitors to Ireland in 2013 came from France.

True

False

- (ii) There were more visitors to Ireland in 2013 from Italy and Scandinavia combined than from France.

True

False

- (iii) Just under six million people visited Ireland in 2013.

True

False

17. ORDNANCE SURVEY MAP

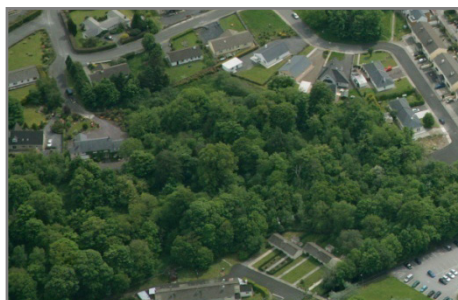
Examine the Ordnance Survey map supplied with this paper.
In the boxes provided, match each of the letters in **Column X** with the number of its pair in **Column Y**. One match has been completed for you.

Column X	
A	V 903 765
B	V 862 773
C	V 918 718
D	V 877 676

Column Y	
1	Parking
2	Public Telephone
3	Triangulation Pillar
4	Golf Course

X	Y
A	
B	1
C	
D	

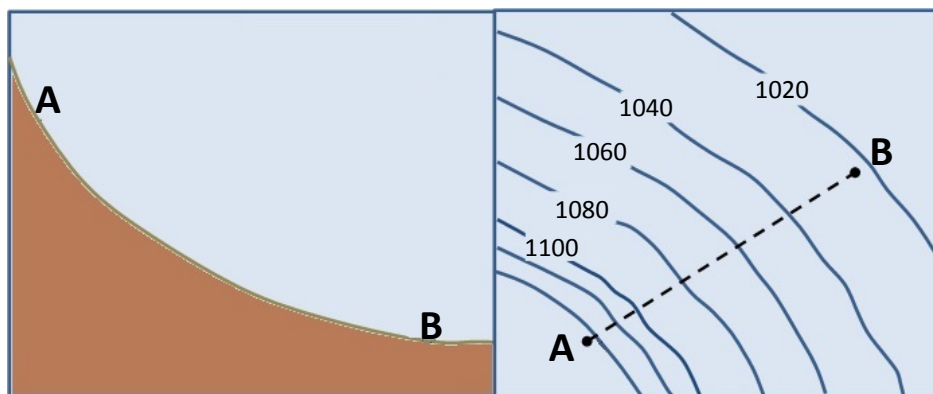
18. AERIAL PHOTOGRAPH



Using the usual notation (right background etc.), give the correct location of this area of woodland, shown on the aerial photograph accompanying this paper.

Location _____

19. SLOPE



The slope A - B is:

A stepped slope

☐

A concave slope

☐

A convex slope

☐

An even slope

☐

Tick (✓) the correct box.

20. THE RIVER RHINE

Indicate which **one** of the following statements is correct by ticking the correct box.

The River Rhine rises in Germany and enters the sea in France.

☐

The River Rhine rises in Germany and enters the sea in the Netherlands.

☐

The River Rhine rises in Switzerland and enters the sea in the Netherlands.

☐

The River Rhine rises in Italy and enters the sea in France.

☐

Tick (✓) the correct box.

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Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2015

GEOGRAPHY – HIGHER LEVEL

SECTION 2 (90 marks)

FRIDAY, JUNE 5 – MORNING, 9.30 - 11.30

SECTION 1 of this paper is in a separate folder, where spaces are provided for your answers.

PLEASE REMEMBER TO RETURN YOUR COMPLETED **SECTION 1 FOLDER** WITH YOUR
ANSWER BOOK.

SECTION 2 (90 marks)

Answer any **THREE** questions.

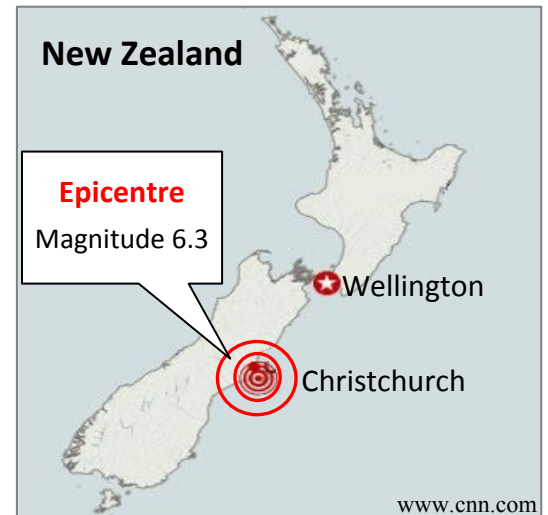
All questions carry equal marks.

Question 1. THE EARTH'S SURFACE

A. Earthquakes

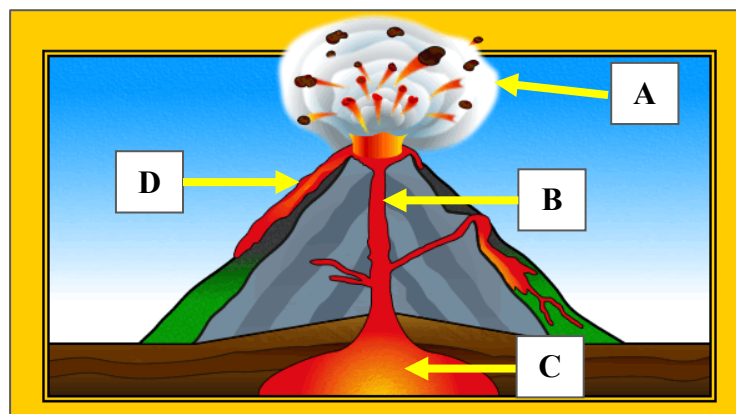
Examine the map opposite and answer each of the following questions.

- (i) Explain what is meant by the term *epicentre*.
- (ii) Explain why the effects of the earthquake were greater in Christchurch than in Wellington.
- (iii) Describe **two** ways to reduce the impact of earthquakes.



(10)

B. Volcanoes



www.edulinks.stcrnans.ie

- (i) Examine the diagram of a volcano above and name each of the parts labelled **A**, **B**, **C** and **D**.
- (ii) Explain **one** positive impact and **one** negative impact of volcanoes.

(10)

C. Rivers

Name **one** feature formed by rivers, and with the aid of a labelled diagram, explain how it was formed.

(10)

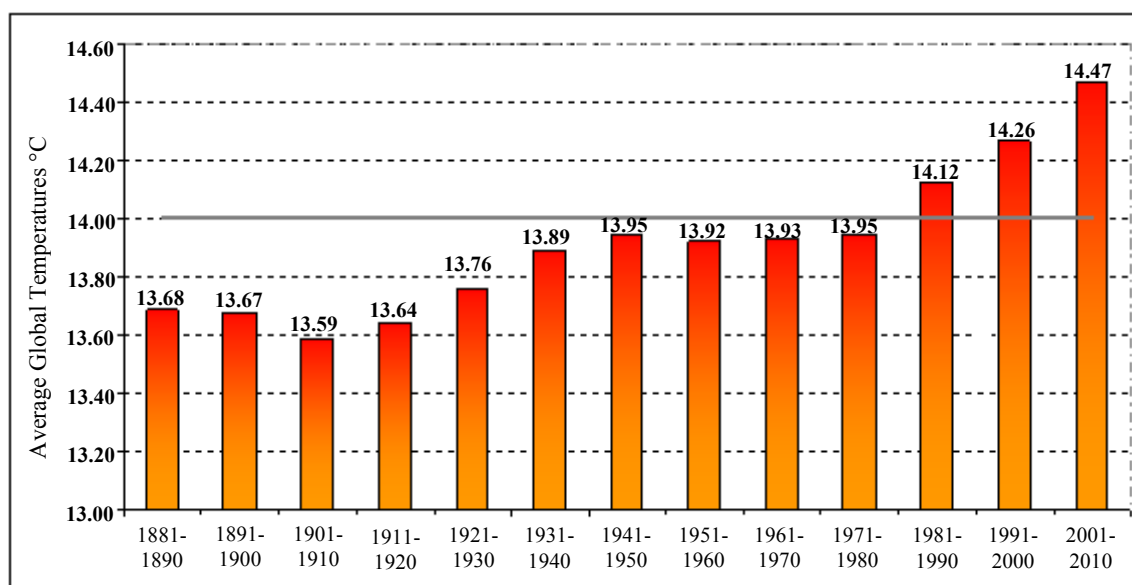
Question 2. THE RESTLESS ATMOSPHERE AND HUMAN ACTIVITY

A. Rainfall

Describe and explain, with the aid of a labelled diagram, how relief rainfall occurs.

(10)

B. Global Warming



www.wmo.int

Examine the graph above which shows information regarding average global temperatures from 1881 to 2010 and answer each of the following questions.

- During which ten year period was average global temperature at its lowest?
- What was the average global temperature in the period 1991-2000?
- Explain **two** ways that human activity contributes to global warming.
- Describe **one** effect of global warming on Ireland.

(10)

C. Acid Rain

- Explain **two** effects of acid rain.
- Describe **two** ways of reducing acid rain.

(10)

Question 3. GEOGRAPHICAL MIX

Answer **ANY THREE** of the questions **3A, 3B, 3C, 3D**.

3A. Fold Mountains



- (i) With the aid of a labelled diagram, explain how fold mountains are formed.
- (ii) Name **one** range of fold mountains in Ireland.

(10)

3B. Population

% of Population by Age Group in Germany and Brazil in 2013

Age Group	0-14 years (%)	15-64 years (%)	65+ years (%)
Germany	13.1	66.1	X
Brazil	24.2	68.5	7.3

US Census Bureau

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

- (i) Calculate **X**, the percentage of the population in Germany aged 65 years and over.
- (ii) Describe **two** challenges facing Germany in the future, given the percentage of its population aged 65 years and over.
- (iii) Explain why the percentage of population in the 0-14 year age group in Brazil is significantly higher than that in Germany.

(10)

3C. Soils

(i) Explain the role in soil formation of any **two** of the following factors:

- Climate
- Vegetation
- Parent rock
- Micro-organisms.

(ii) Describe **one** way that soil is important to people.

(10)

3D. Traffic Congestion



(i) Describe **one** reason why traffic congestion occurs in Irish cities.

(ii) Explain **two** methods that could be used to reduce traffic congestion in Irish cities.

(10)

Question 4. ECONOMIC ACTIVITIES

A. Farming



A farm can be viewed as a system, involving inputs, processes and outputs.
Answer each of the following questions with reference to any mixed farm that you have studied.

- (i) Name **two** farm inputs.
- (ii) Describe **two** processes that take place on the farm.
- (iii) Name **two** outputs from the farm and state how each may be used.

(10)

B. Tourism

Climate data for Dublin and the Costa del Sol (Spain)

Month	June		July		August	
	Hours of sunshine	Mean temp °C	Hours of sunshine	Mean temp °C	Hours of sunshine	Mean temp °C
Dublin	6.5	17.0	5.0	18.0	5.0	18.0
Costa del Sol	9.0	27.0	10.0	30.0	9.0	31.0

With reference to the information given in the table above, explain **two** reasons why the Costa del Sol would be a better location than Dublin for a sun holiday.

(10)

C. Fishing

- (i) Explain **two** reasons for the over exploitation of fish.
- (ii) Describe **two** measures that could be used to prevent the over exploitation of fish.

(10)

Question 5. AERIAL PHOTOGRAPH AND ORDNANCE SURVEY MAP

A. Examine the **AERIAL PHOTOGRAPH** supplied with this paper.

Draw a sketch map of the aerial photograph.

On your sketch map **show** and **label** each of the following:

- Two connecting streets
- A church
- A car park
- A residential area.

(10)

B. Examine the **ORDNANCE SURVEY MAP** supplied with this paper and answer each of the following questions.

- (i) Name and locate, using a six-figure grid reference, **one** rural settlement pattern evident on the Ordnance Survey map.
- (ii) Explain why this settlement pattern developed at this location.
- (iii) Measure the distance in kilometres along the N70 from where it enters the map at V 850 698 to where it meets the N71 at V 905 713.

(12)

C. Examine the **ORDNANCE SURVEY MAP** supplied with this paper.

Explain **two** reasons why there is an absence of settlement north of northing 74, using evidence from the Ordnance Survey map to support each reason.

(8)

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