

WARNING

You must return this paper with your answer book, otherwise marks will be lost.

Write your Examination Number here



Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2004

GEOGRAPHY - HIGHER LEVEL

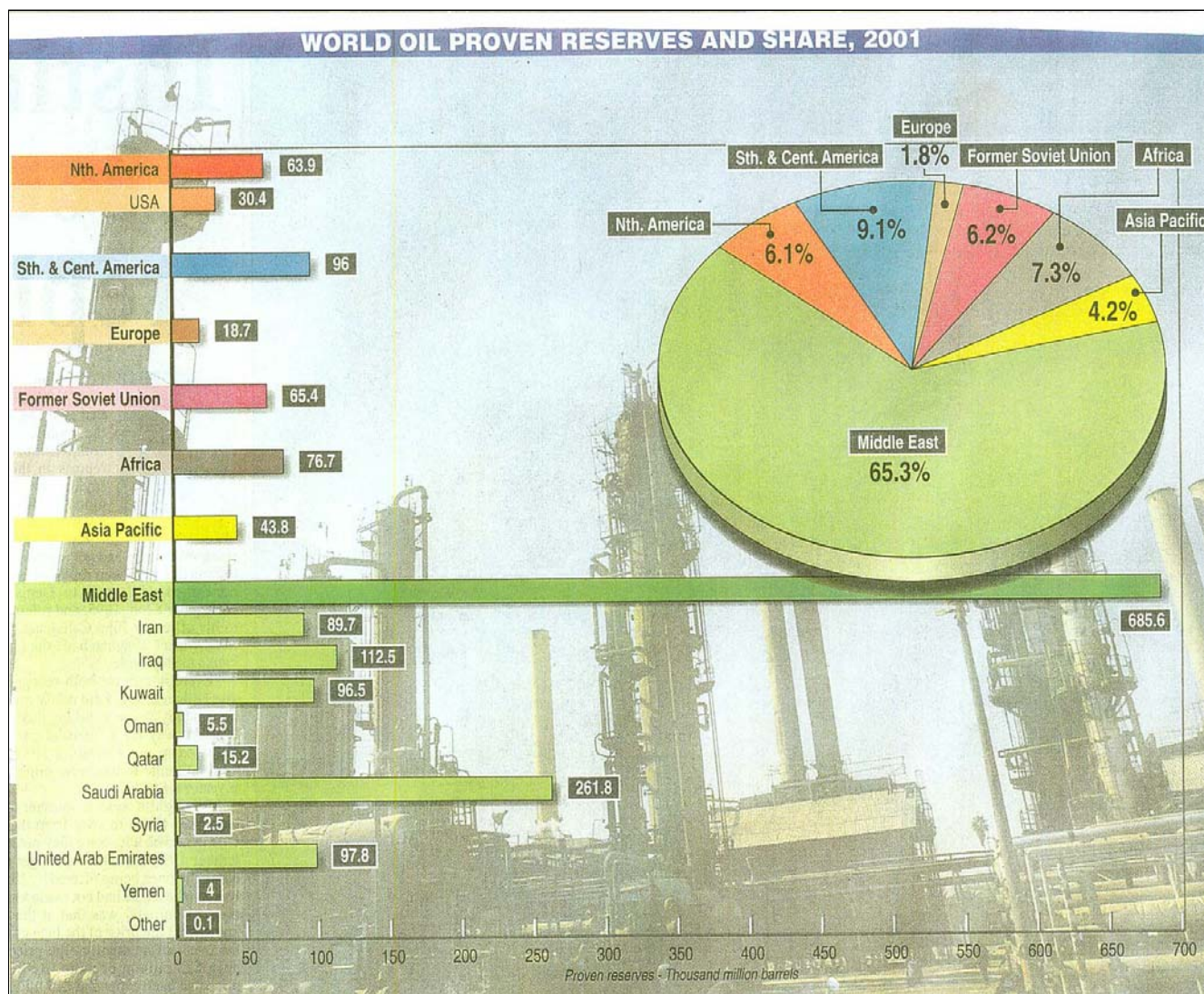
SECTION 1 - FOLDER

MONDAY 14th JUNE - AFTERNOON, 1.30 TO 3.30

SECTION 1 (60 MARKS)

ALL questions to be answered. You have
an either / or choice *within* 3 questions.
Be sure to return this folder with your answerbook,
otherwise, marks will be lost.

1. WORLD OIL RESOURCES



Read the statements below. Not all the statements are true.

1. The Middle East has 65.3% of proven oil reserves.
2. Europe has the smallest % of proven oil reserves.
3. North, South and Central America have a smaller % of oil reserves than the former Soviet Union.
4. Saudi Arabia has 261.8 thousand million barrels of oil reserves.
5. Iraq has less oil reserves than the U.S.A.

The correct statements are numbered.

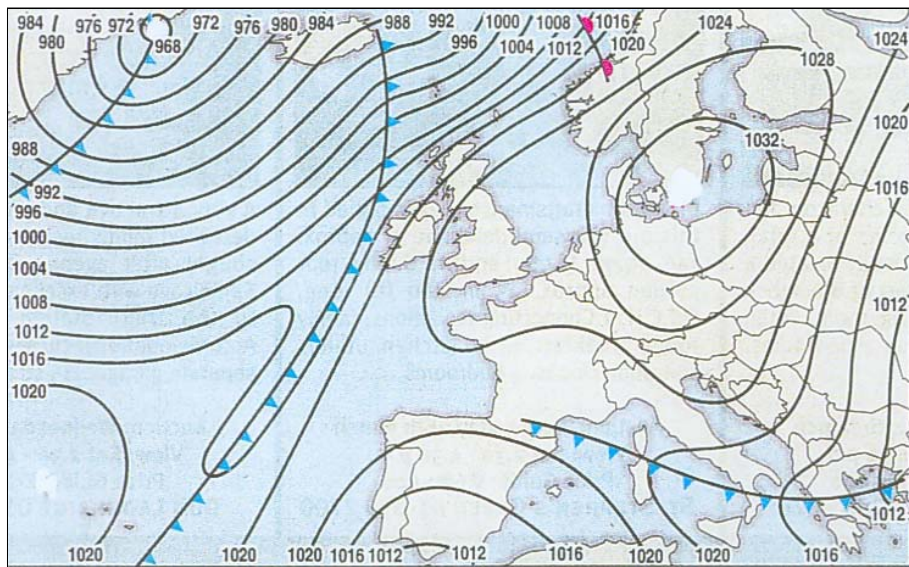
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2. WEATHER MAP

Examine the weather map and answer the questions below:

- (i) ***Insert*** the word **HIGH** in an appropriate place on the map.
- (ii) ***Circle*** the correct word in ***each*** of the sentences below.
- ☐ Winds to the west of Ireland are **strong** / **gentle**.
 - ☐ As the cold front crosses Ireland it will bring **sunshine and higher temperatures** / **rainfall and lower temperatures**.



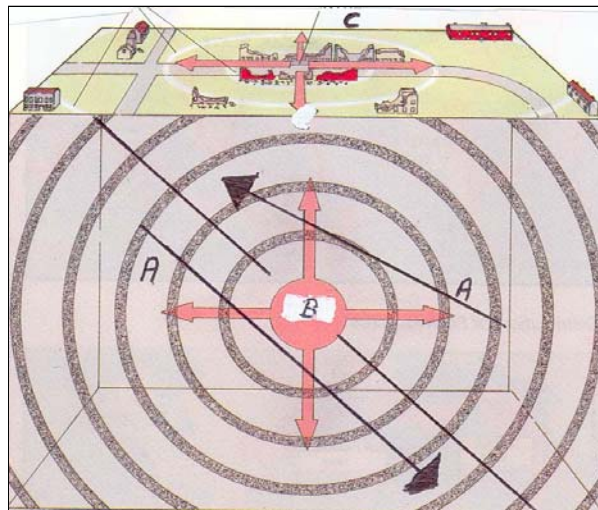
ANSWER EITHER 3A OR 3B

3A. EARTHQUAKES

Examine the diagram below which shows how an EARTHQUAKE happens.

In the box provided, insert each of the labels A, B, and C shown on the diagram with its matching term: EPICENTRE; FOCUS; COLLIDING PLATES.

TERM	LETTER
Epicentre	
Colliding Plates	
Focus	



OR

3B WEATHERING

The photograph shows the effects of weathering on a public monument.
This is the result of:

Physical Weathering ☐

Biological Weathering ☐

Sunny Weather ☐

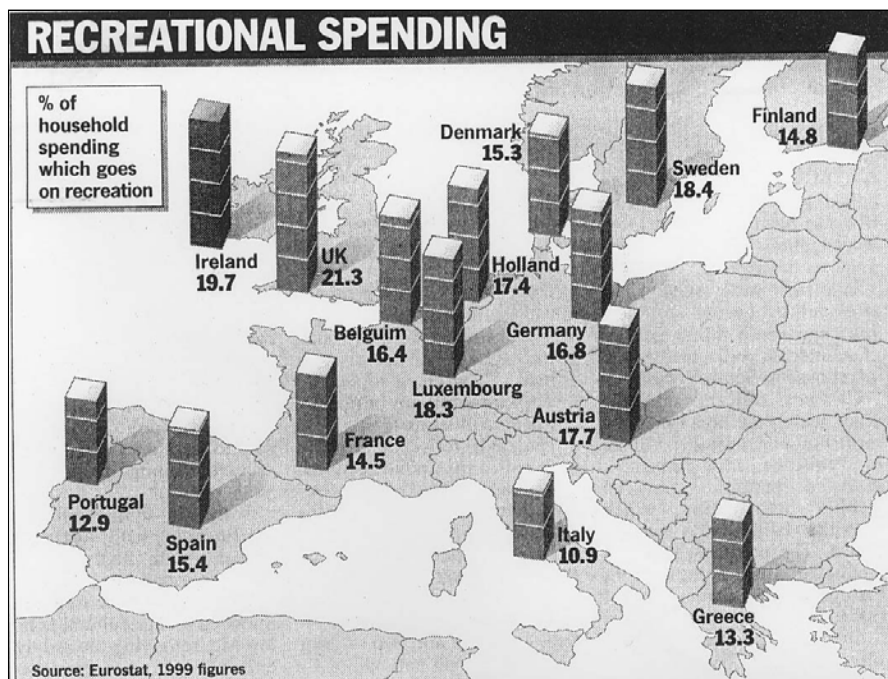
Chemical Weathering ☐

Tick (✓) the correct box.



4. RECREATIONAL SPENDING

Examine the map which shows spending on Recreation as a % of household spending.

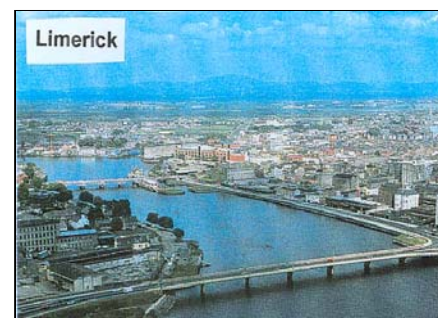
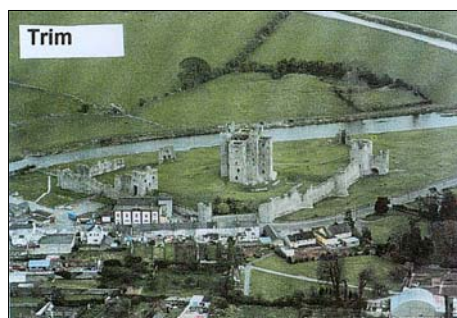
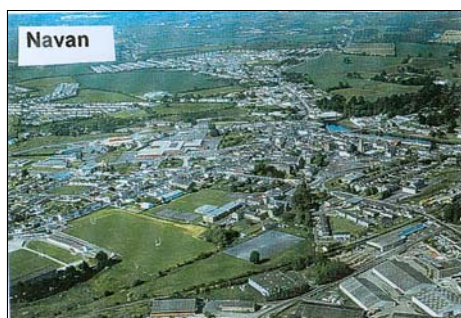


Name the **three** countries with the highest % spending on Recreation.

1. _____
2. _____
3. _____

5. LOCATION OF TOWNS

Study the Photographs below which show the location of three towns.



Match the name of the town with the description of its location.

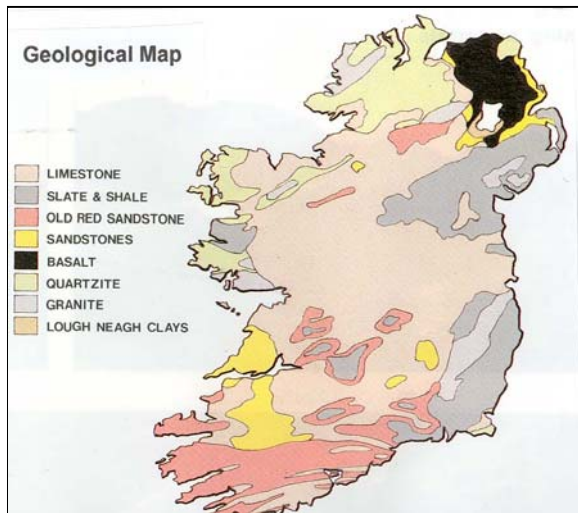
Write your answer in the box provided.

NAME OF TOWN	DESCRIPTION
	Was an ideal Defensive Site near a river.
	Is located at a Bridging Point.
	Is a Nodal Point on a river where roads meet.

ANSWER EITHER 6A OR 6B

6A. GEOLOGICAL MAP OF IRELAND

Examine the Geological Map of Ireland and answer the questions that follow:



Name the **principal rock** found at the following locations.

The rock _____ is found in the NORTH EAST.

The rock _____ is widespread in the MIDLANDS.

OR

6B. DONEGAL TOWN PLAN

Examine the town plan of Donegal and answer the questions that follow

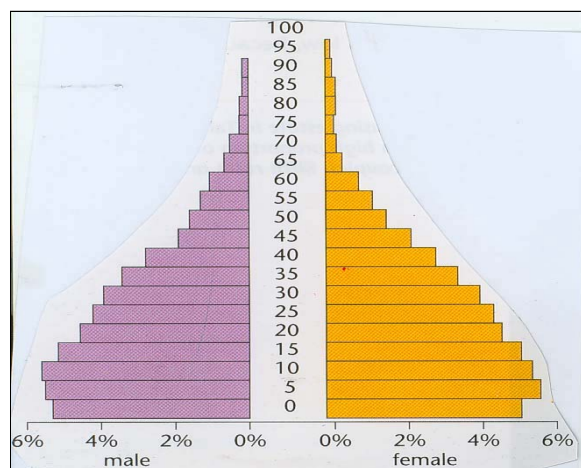


(i) What placename in Donegal Town suggests that this is a market town.

(ii) Identify a piece of evidence that suggests this town was once a defence settlement.

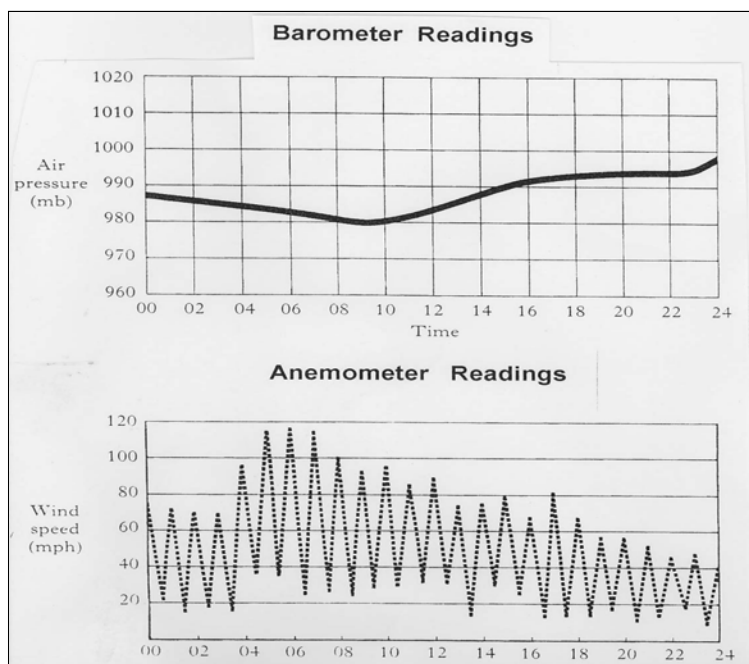
7. POPULATION STRUCTURE

The diagram shows the population structure of a country.



- (i) What is the name given to a diagram such as this _____
- (ii) **Circle the correct answer in each of the following statements.**
- ☐ This population structure refers to a **Developed Country / Developing Country**.
 - ☐ The percentage of the population under 5 years is **5 % , 10 % , 22 %** .

8. WEATHER RECORDING



Read the statements below. Not all are true.

1. Between 8am and 10am Air Pressure was 980 millibars.
2. Between 4am and 8am wind speed increased.
3. Wind speed increased as air pressure increased.
4. As air pressure fell wind speed increased.
5. Wind speed reached its fastest at the end of the 24 hour period.

The correct statements are numbered. *Tick (✓) the correct box.*

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1	2	3	<input type="checkbox"/>
1	2	4	<input type="checkbox"/>
3	4	5	<input type="checkbox"/>

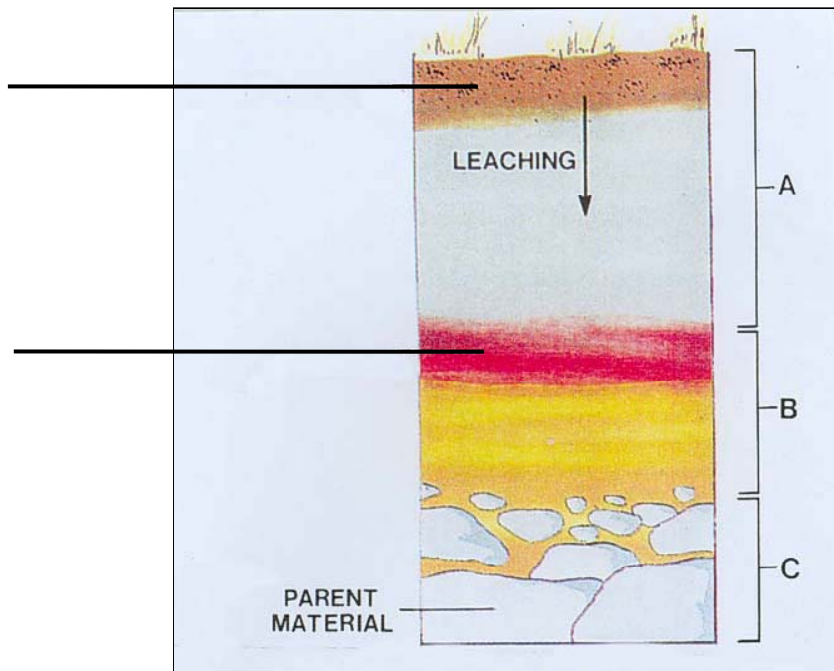
9. INDUSTRIAL LOCATION

Suggest **three** reasons why Ireland is an attractive location for Multi-National Companies.

- A. _____
- B. _____
- C. _____

10. SOIL

The diagram shows a Soil Profile of a soil which has been Leached.



- ☐ Insert the words **HUMUS** and **HARDPAN** at the appropriate place on the lines provided.
- ☐ **Circle** the correct answer in the sentence below:

This type of soil is known as a **Brown Earth / Podzol**.

ANSWER EITHER 11A OR 11B

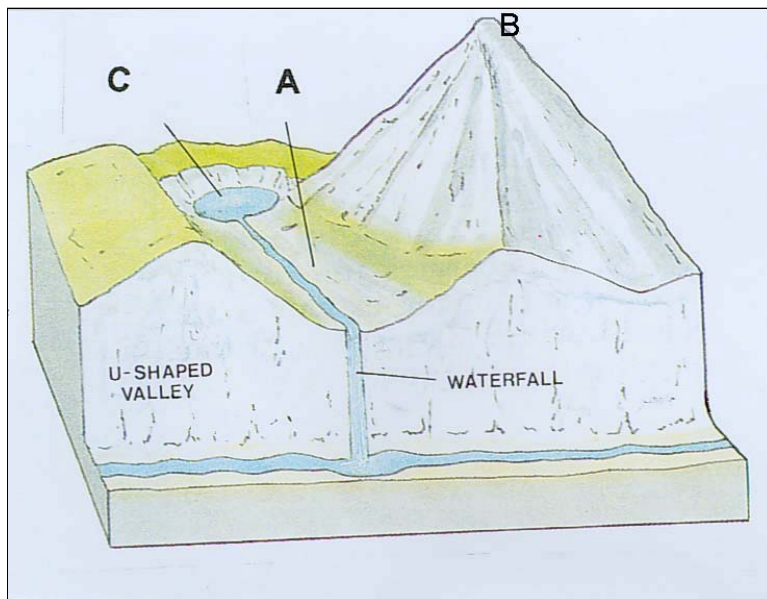
11A. GLACIAL FEATURES

The diagram shows an upland area that has been Glaciated.

In the box provided, insert each of the labels A, B, and C shown on the diagram with its matching term:

Corrie, Hanging Valley and Pyramidal Peak.

TERM	LETTER
Corrie	
Hanging Valley	
Pyramidal Peak	



OR

11B. COASTAL FEATURES

Study the photograph and sketch of coastal landforms.

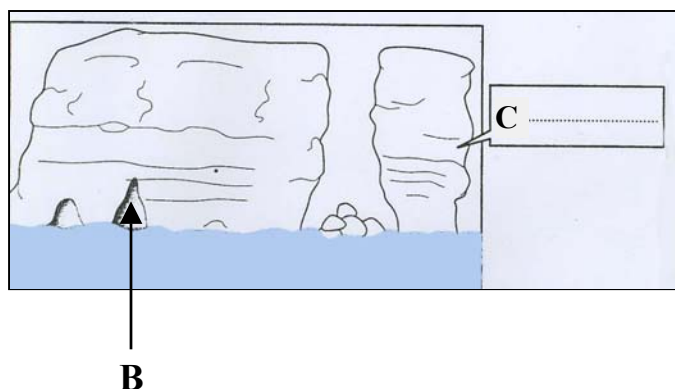
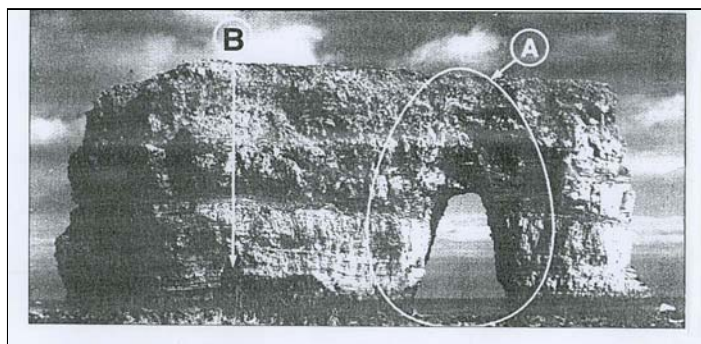
This photograph was taken in 1984.

The sketch shows the same coastline in the year 2001.

- ❑ *Name the coastal features marked A and B.*

A _____ B _____

- ❑ *On the sketch, label the feature C.*

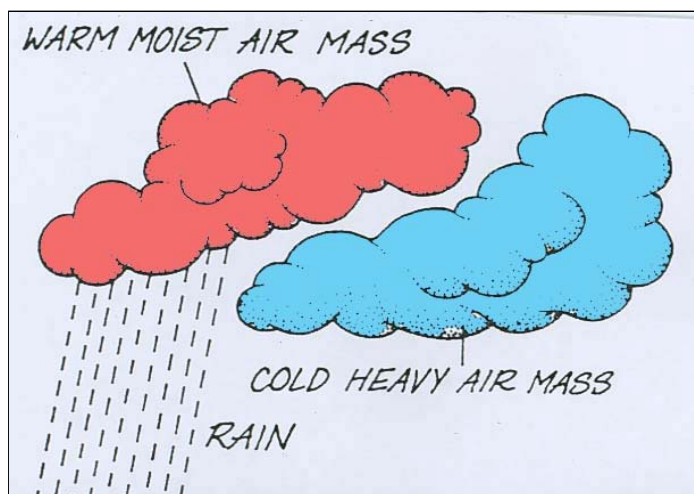


12. RAINFALL

The type of Rainfall shown in the diagram below is:

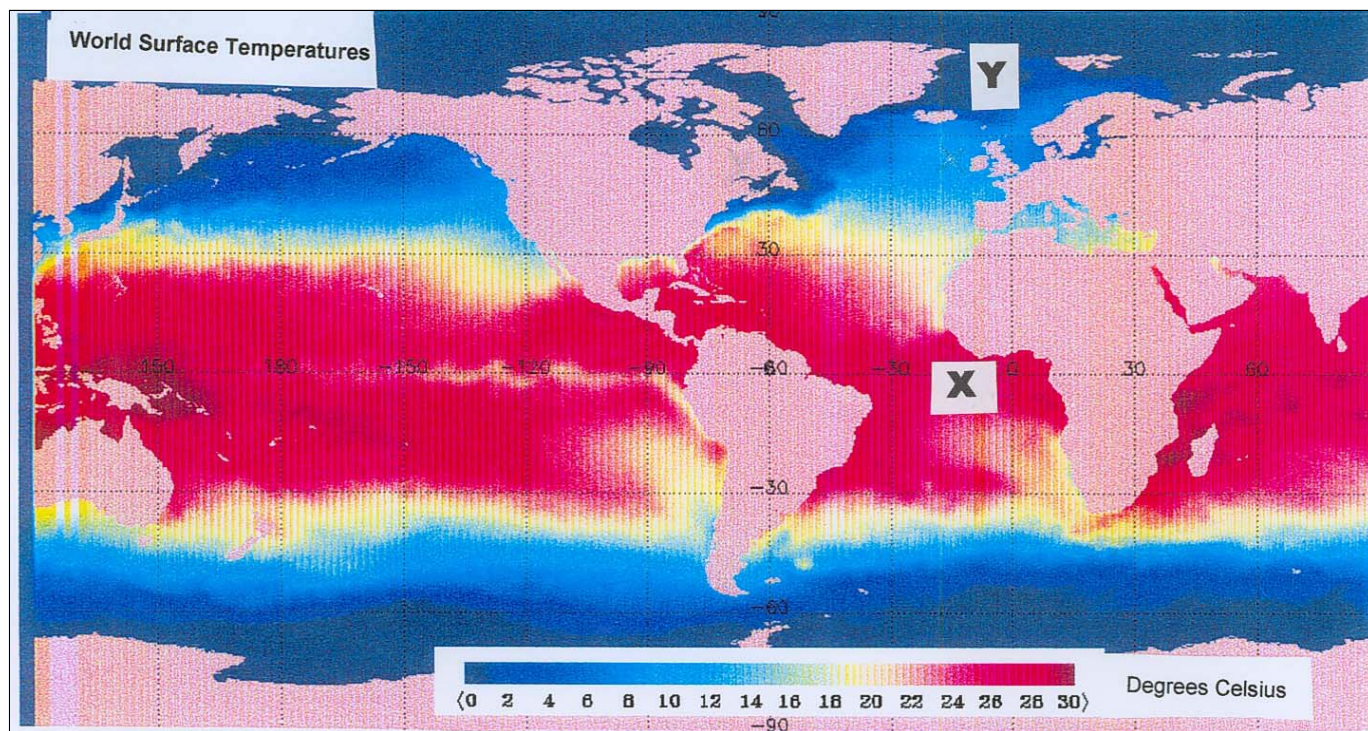
- Relief Rainfall ☐
- Frontal Rainfall ☐
- Light Rainfall ☐
- Convectional Rainfall ☐

Tick (✓) the correct box.



13. FACTORS AFFECTING CLIMATE

Examine the map of **World Sea Surface Temperatures**.

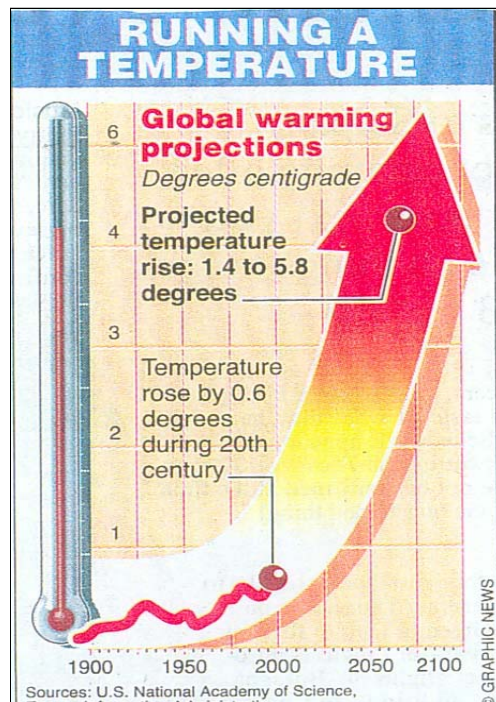


Can you suggest a reason why the sea surface temperatures at X are higher than those at Y?

Answer _____

14. GLOBAL WARMING

Examine the diagram provided “**Running a Temperature**” and answer the questions that follow.



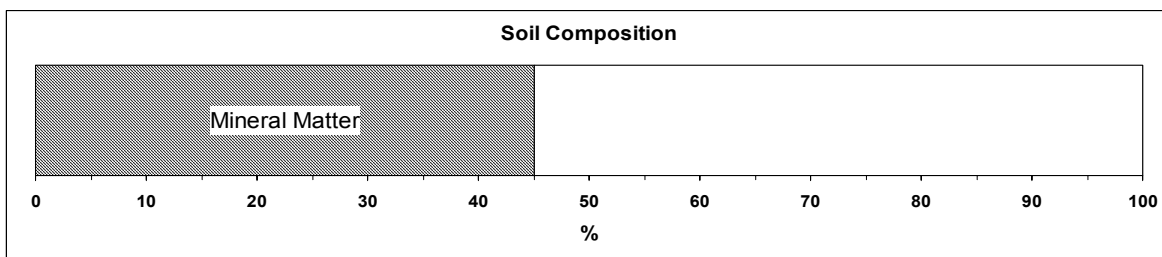
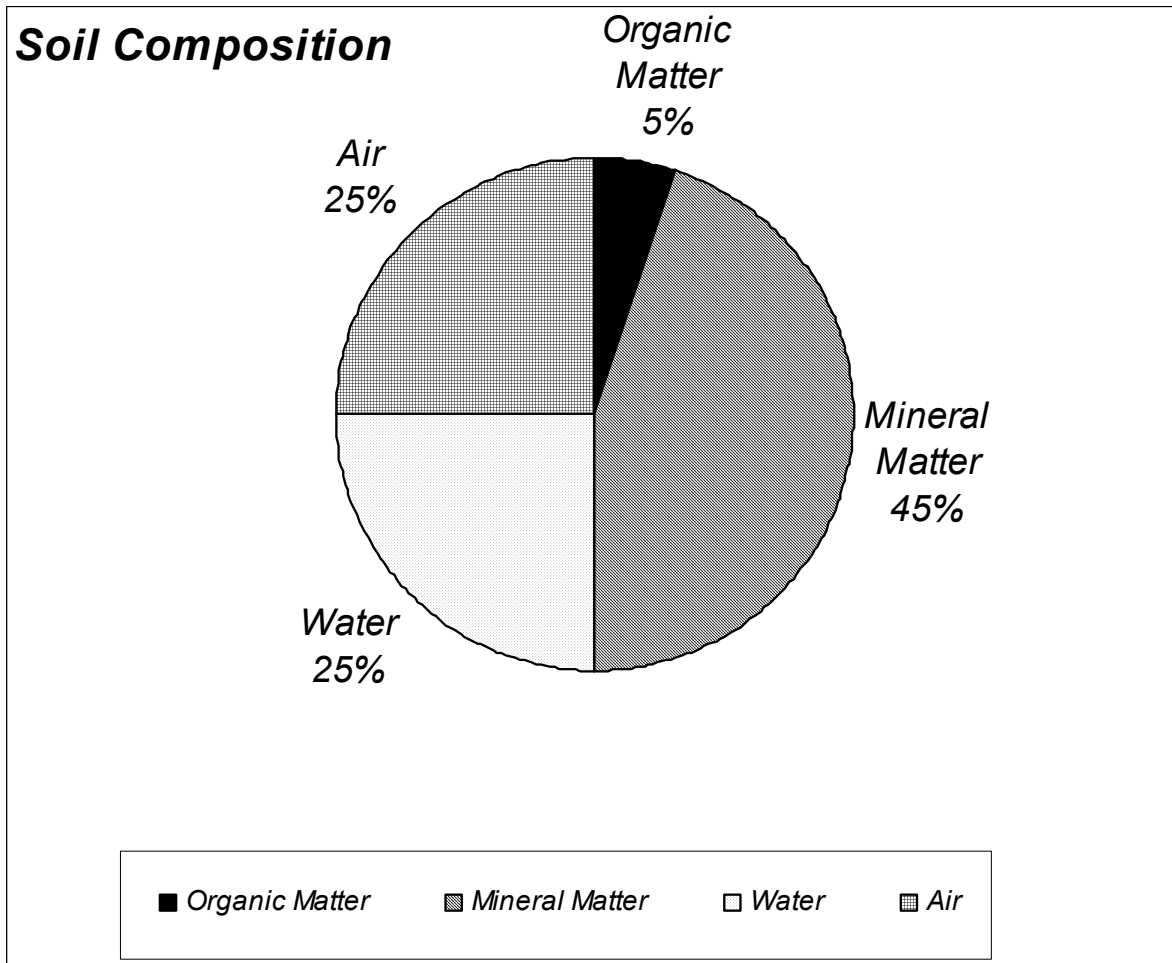
Circle the correct answer in **each** of the following sentences:

- (i) During the twentieth century temperatures rose by **1.4°C** / **0.6°C**.
- (ii) By the year 2100 temperatures are expected to rise by between **0.6°C to 1.4°C** / **1.4°C to 5.8°C**.
- (iii) The main cause of Global Warming is the increase in **CO₂ emissions** / **Acid Rain**.

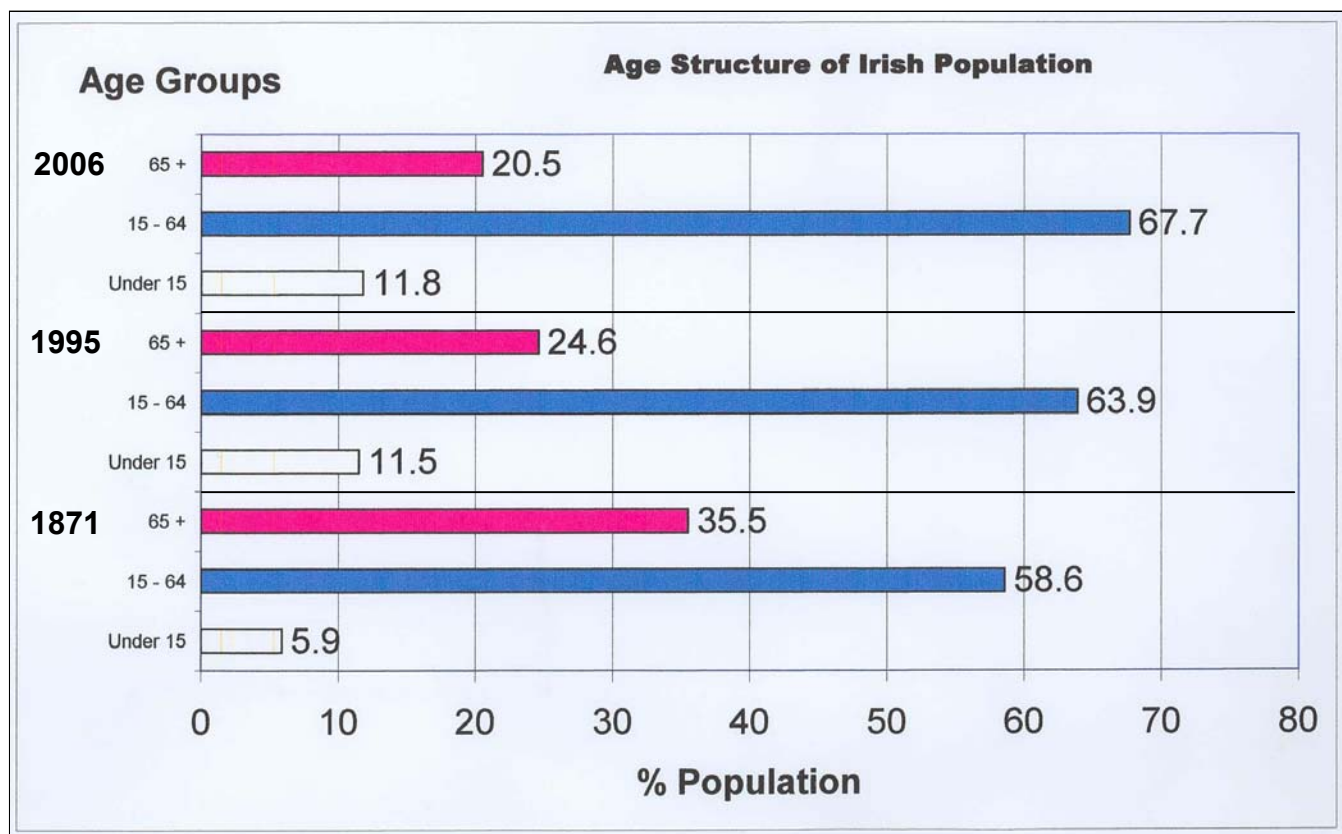
15. STATISTICAL SKILLS

The pie-chart shows the Composition of Soil.

Complete and label the divided rectangle, using the information on the pie-chart.



16. IRELAND'S POPULATION



Read the statements below. Not all are true.

1. In 1995 63.9% of the population was between 15 and 64.
2. By 2006 the % of the population over 65 will increase when compared to 1995.
3. The % of the population over 65 was more in 1871 than in 1995.
4. There was an increase in the % of the population over 65 each year.
5. The % of the population under 15 was smaller in 1871 than in 1995.

The correct statements are numbered.

Tick (✓) the correct box.

- | | | | |
|---|---|---|--------------------------|
| 1 | 2 | 3 | <input type="checkbox"/> |
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| 1 | 3 | 5 | <input type="checkbox"/> |
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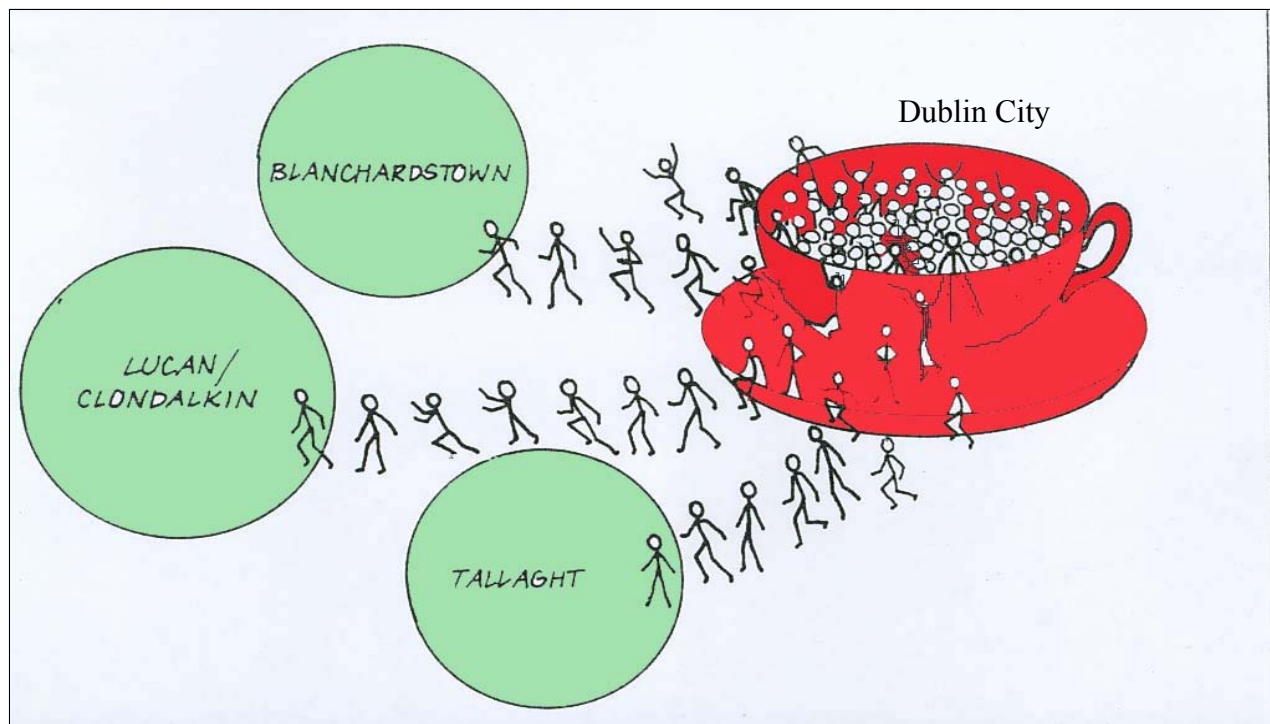
17. URBAN GEOGRAPHY CARTOON

Which of the following statements best describes the information shown in the cartoon.

- (i) Dublin City is constantly attracting new residents from outlying areas
- (ii) Dublin City looks like a saucer-shaped depression
- (iii) New Towns outside Dublin have taken the overspill population from the city
- (iv) Tallaght is continually decreasing in population size

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Tick (✓) the correct box.



18. ORDNANCE SURVEY DISTANCE

Calculate the length of the N59 road from where it enters the map (G 289 230) to where it crosses the river Moy at the bridge (G 249 190)

Distance is _____ kilometers

19. ORDNANCY SURVEY HEIGHTS

In the boxes provided match the Grid References in column X with the corresponding heights in column Y.

One pair has been completed for you

Column X		Column Y	
A	G 256 146	1.	less than 10 metres
B	G 266 154	2.	19 metres
C	G 222 228	3.	10 metres
D	G 185 183	4.	Over 40 metres

X	Y
A	1
B	
C	
D	

20. ORDNANCE SURVEY

Examine the River Moy on the map.

(i) *Circle the correct answer in the sentence below.*

☐ The River Moy shows evidence of being in the stage of **Youth / Old Age**.

(ii) State **two** reasons for your answer, using evidence from the map.

1. _____

2. _____

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Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2004

GEOGRAPHY - HIGHER LEVEL

MONDAY, 14th JUNE - AFTERNOON, 1.30 TO 3.30

SECTION 2 (90 MARKS)

Answer **THREE** questions.

SECTION 1 of this paper is on a separate folder, where spaces are provided for your answers. Please remember to return your completed folder with your answerbook.

SECTION 2

1. **URBAN GEOGRAPHY**

A. Examine the table of Ireland's Fastest Growing Urban Centres (excluding Dublin).

Figs. show % change in population between 1981 and 1996.

Centre	Change %
Bray	22.2
Lucan	-
Swords	100.3
Navan	15.0
Newbridge	24.7
Leixlip	44.5
Malahide	47.8
Arklow	-1.0
Naas	68.7
Portmarnock	11.4
Greystones	34.3
Balbriggan	26.3
Skerries	26.7
Athy	-4.7
Wicklow	36.5
Celbridge	168.1
Kildare	6.5
Rush	40.5
Kells	-3.3
Trim	24.9
Maynooth	151.7
Ashbourne	115.0

- (i) Put in rank order the **four** fastest growing urban centres. (4)
- (ii) With reference to **one** Irish urban centre you have studied explain the factors which lead to its development.

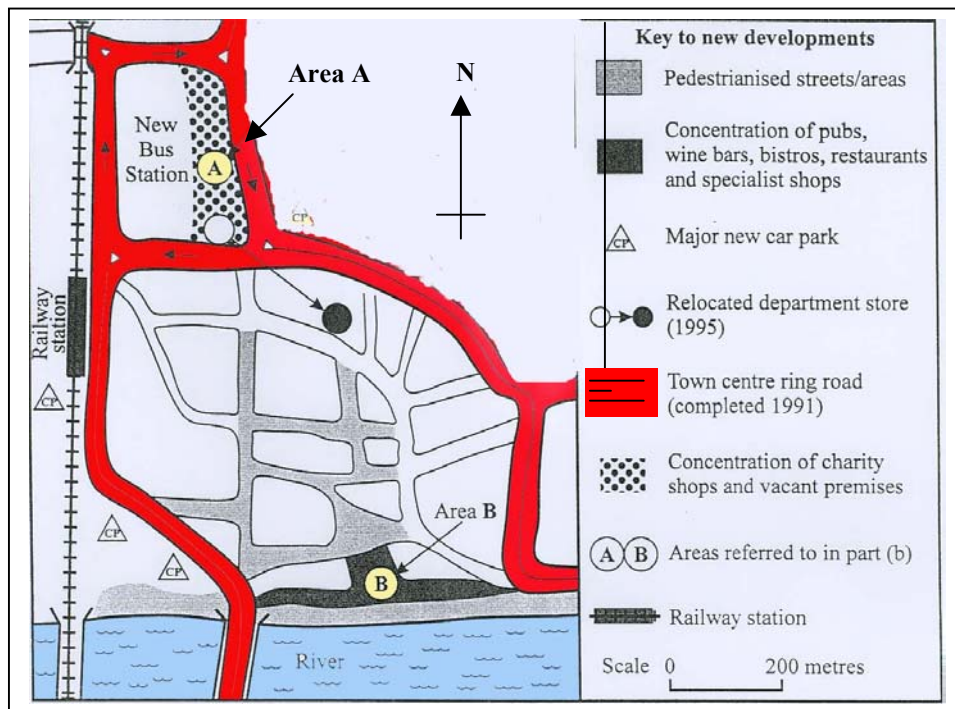
In your answer refer to:

- ☐ Economic Factors
- ☐ Social Factors
- ☐ Administrative Factors

(12)

B. Examine the diagram showing urban development and answer the questions that follow:

Urban Development



- (i) What evidence is there that the local council has seen traffic management as an important element in the planning of this town centre? (4)
- (ii) Suggest **two** reasons why the area marked **B** appears to be developing while the area marked **A** appears to be in decline. (4)
- (iii) In **any** town which you have studied, explain **one** recent development which helped to solve the problems of Urban Sprawl **or** Urban Renewal/Re-development. (6)

(30 marks)

2.

WORLD POPULATION DISTRIBUTION

A. “The population of the world is distributed unevenly across the earth’s surface.”

Examine the O.S. map and answer the following questions.

- (i) Suggest **one** reason for the low population density in grid square G 25 15.
- (ii) Suggest **one** reason for the higher population density in grid square G 27 16. (4)

B. With reference to a **country** that you have studied:

- (i) ☐ Name **one** region with a high population density.
- ☐ Name **one** region with a low population density. (4)
- (ii) ☐ Describe and explain **one** reason for the high population density.
- ☐ Describe and explain **one** reason for the low population density. (12)

C. “The density of population in an area has effects on the social and economic geography of that area.”

Discuss **two** problems that might arise in an area of high population density **or** an area of low population density. (10)

(30 marks)

3.

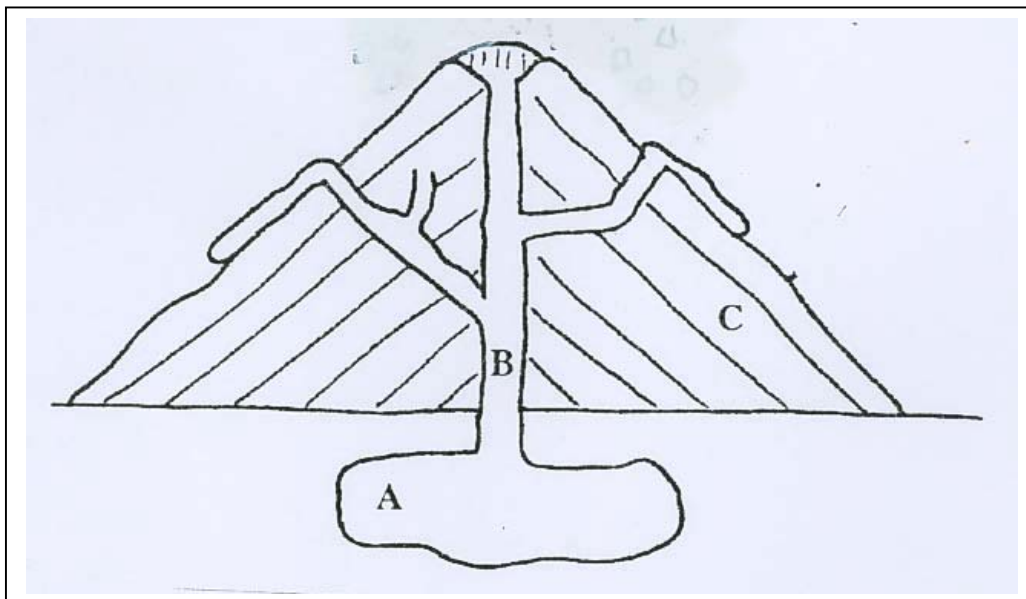
GEOGRAPHICAL MIX

Answer **three** of the following A, B, C, D

A. Physical Geography: Rocks

- (i) Examine the diagram of a Volcano and name the parts A, B and C (3)

Diagram of Volcano



- (ii) **“Volcanoes result in the formation of Igneous Rocks.”**

Select **one** Igneous Rock and explain how it was formed. (3)

- (iii) **“Rocks are useful for economic activities.”**

Name and explain **two** ways rocks may be used in economic activities. (4)

B. Energy

- (i) ☐ Name **two** areas off the Irish Coast where natural gas has been found.
☐ Name a major source of natural gas elsewhere in Europe.
☐ A gas interconnector links Ireland to which other country? (4)

- (ii) **“The discovery of natural gas in an area has positive and negative effects.”**

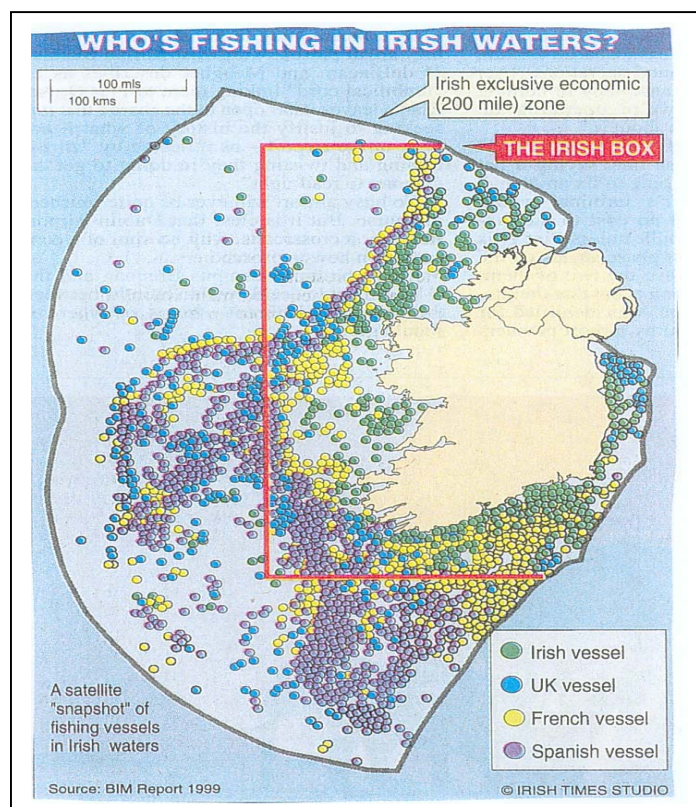
Describe and explain **one** positive and **one** negative effect of a gas discovery on an area. (6)

C. Fishing

IRELAND'S FISH CATCH (Tonnes)

FISH TYPE	1997	1998	1999	2000
Cod	5,706	5,294	3,860	2,928
Herring	57,155	58,248	45,334	42,114

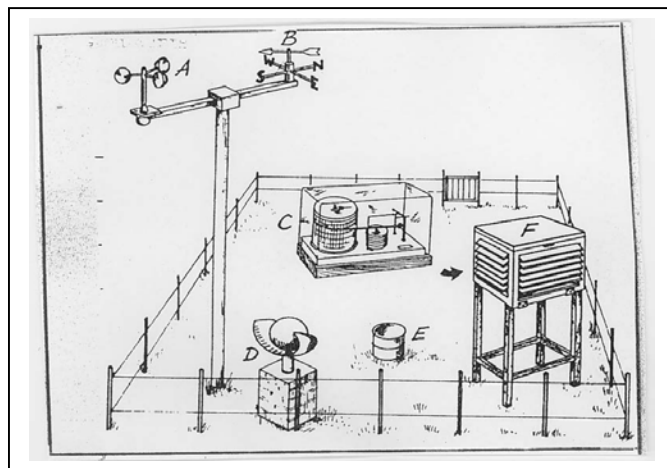
- (i) Describe the trend shown by the figures in the table. (2)
- (ii) Explain **two** reasons why over-fishing has occurred in Irish waters. (4)



- (iii) “The Irish Box is a method of conserving fish stocks.”
- Apart from Ireland and the UK, name **one** other country whose vessels fish in the Celtic Sea. (2)
- Name and describe **one** other method which might be used to conserve fish stocks. (2)

D. Weather

Examine the diagram of the weather station.



- (i) Name any **four** of the weather instruments labelled as follows: A, B, C, D, E, F (4)
- (ii) Explain how you would use any **two** of the instruments to record the weather. (4)
- (iii) Explain why accurate weather forecasts are important for any **two** of the following: (2)
 - ☐ Farmer
 - ☐ Long Distance Lorry Driver
 - ☐ Airline Pilot
 - ☐ Crew of a Trawler

4. **ORDNANCE SURVEY AND AERIAL PHOTOGRAPH**

Study the O.S. map, legend (key) provided and the Aerial Photograph.

(note: location on the photograph should be given using right foreground, left background, etc.)

A. Draw a sketch map of the area shown on the Aerial Photograph.

Show and name the following:

- ☐ The river Moy and two bridges.
- ☐ Two connecting streets.
- ☐ A Church with a spire.
- ☐ An Industrial Estate.
- ☐ An area of terraced housing.
- ☐ A shopping centre and car park. (12)

B. The town of Ballina provides a variety of services.

With reference to the O.S. map **only** describe **three** of these services. (12)

C. It is proposed to re-develop the areas of derelict land on both sides of the river in the right centre of the photograph.

- (i) Suggest a suitable use for this land.
- (ii) Explain **two** reasons for your choice.

(6)
(30 marks)

WORLD INEQUALITIES

Population statistics for selected countries.

1	2	3	4	5	6
Country	Birth rate per thousand	Infant mortality rates per thousand	GNP per capita US\$	Life expectancy at birth (years)	Female literacy %
Malawi	54	147	180	48	34
India	31	95	340	59	29
Morocco	36	69	880	61	22
Peru	31	79	1 010	62	78
Argentina	20	30	2 160	71	95
Portugal	12	13	4 250	75	80
Ireland	16	8	8 710	74	>95
Netherlands	12	7	15 920	77	>95
Switzerland	12	7	29 880	78	>95
Denmark	11	8	20 450	75	>95

A. (i) Name **two** Developing Countries in the list above. (2)

(ii) Explain **two** reasons for your choice. (6)

B. Many factors are responsible for preventing economic development, these include:

- ☐ Climatic Change
- ☐ Population Growth
- ☐ Arms Expenditure
- ☐ War
- ☐ Colonisation

Explain how any **three** of the above factors prevented economic development in a country you have studied. (12)

C. Examine the advertisement for GOAL seeking aid for Ethiopia.



(i) Describe the type of aid the people of Ethiopia need immediately.

(ii) Describe the type of aid which will be needed for future development.

(10)
(30 marks)

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