

WARNING

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

Write your Examination Number here

AN ROINN OIDEACHAIS AGUS EOLAÍOCHTA

JUNIOR CERTIFICATE EXAMINATION, 2001

GEOGRAPHY - HIGHER LEVEL

SECTION 1 - FOLDER

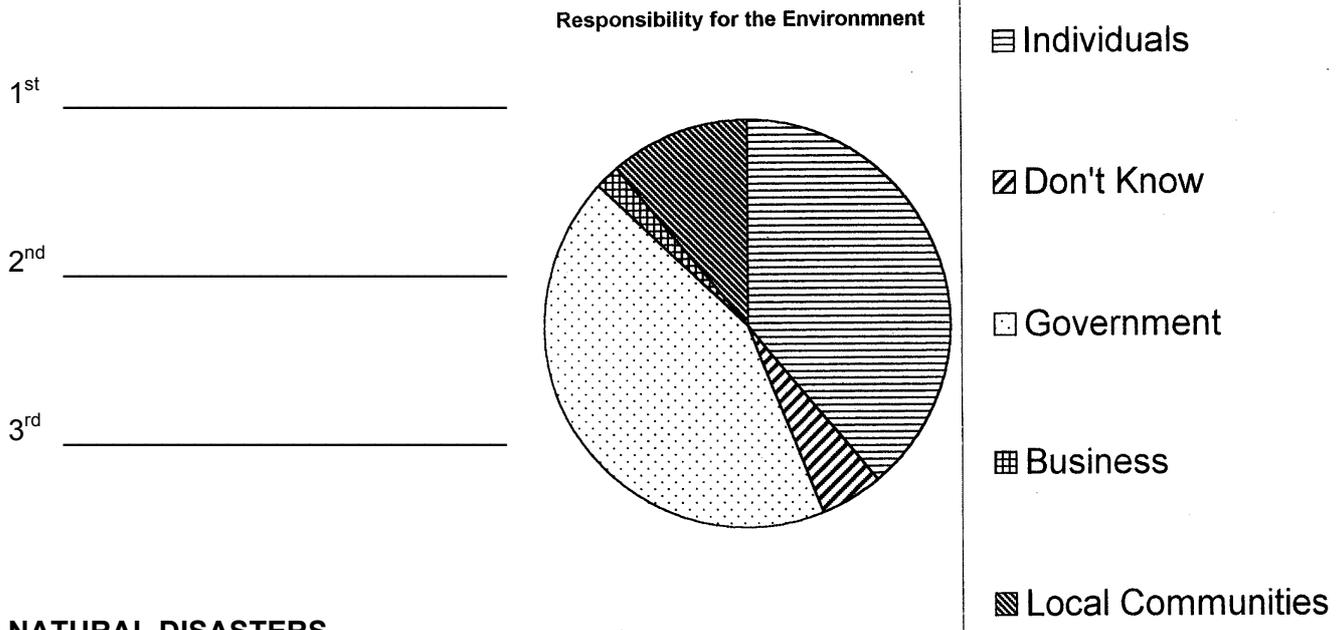
MONDAY, 11 JUNE - AFTERNOON, 1.30 TO 3.30

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. THE ENVIRONMENT

With reference to the pie chart below list **in order of importance** the **THREE** groups, which are the most responsible for the environment.

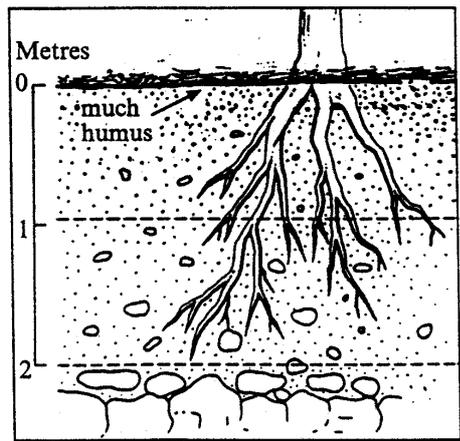


2. NATURAL DISASTERS

The **Pacific Ring of Fire** shows:
[tick ✓ the correct box]

- The location of many earthquakes and volcanoes
- An area subject to bush fires
- An area of hot springs
- An area with a Hot Desert type climate

3. SOIL



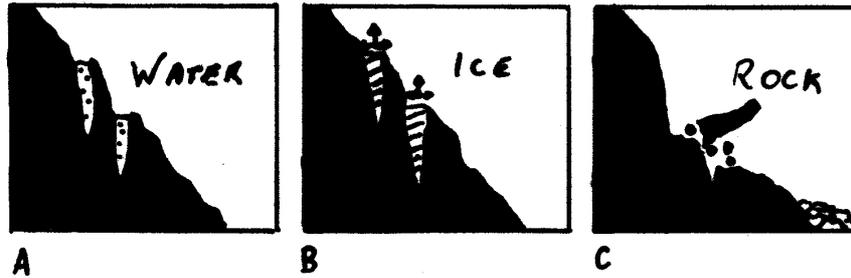
This diagram shows a soil profile. Insert an appropriate word to complete each sentence.

_____ is a source of **humus**.

The **different layers** are referred to as _____.

Leaching occurs when _____ passes through the soil.

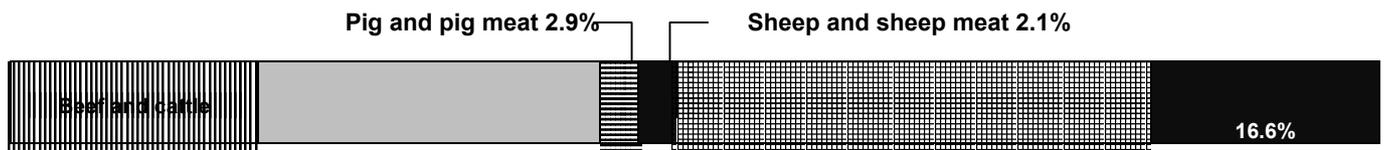
4. WEATHERING



CIRCLE the correct answer in EACH of the statements below.

- (i) The process shown in the diagram is **FREEZE-THAW ACTION** / **SOLUTION**.
- (ii) This is an example of **CHEMICAL** / **MECHANICAL** weathering.
- (iii) This process produces **CLINTS & GRIKES** / **SCREE**.

5. AGRICULTURAL EXPORTS



Agricultural exports, 1995

Read the statements about agricultural exports from Ireland in 1995. Not all the statements are true. You are required to identify the **THREE** correct statements.

- (1) **Food preparations** is the largest export group.
- (2) **Beef and cattle** is the second largest export group.
- (3) **Sheep and sheep meat** is a bigger export group than **pig and pig meat**.
- (4) **Other exports** is a smaller export than **Dairy products**.
- (5) **Dairy products** and **Food preparations** combined, account for over 50% of total exports.

The **CORRECT** statements are numbers:

[tick ✓ the correct box]

- 1, 2, 3
- 1, 3, 5
- 1, 4, 5
- 2, 4, 5

6. WIND

CIRCLE the correct answer in **EACH** of the statements below.

- (i) The instrument used to measure wind speed is called a **WIND VANE / ANEMOMETER.**
- (ii) Wind blows from areas of **HIGH PRESSURE / LOW PRESSURE** to areas of **HIGH PRESSURE / LOW PRESSURE.**
- (iii) Ireland's prevailing wind comes from the **SOUTHEAST / SOUTHWEST.**

7. Answer EITHER 7A or 7B.

7A ROCKS

CIRCLE the correct answer in **EACH** of the statements below.

- (i) Marble is a **METAMORPHIC ROCK / SEDIMENTARY ROCK.**
- (ii) The rock found at the Giant's Causeway in Antrim is **GRANITE / BASALT.**
- (iii) Sandstone is derived from **DECAYED VEGETATION / ROCK FRAGMENTS.**

OR

7B RIVERS

CIRCLE the correct answer in **EACH** of the statements below.

- (i) The area drained by a river and its tributaries is called a **WATERSHED / DRAINAGE BASIN.**
- (ii) The place where two rivers meet is called the **CONFLUENCE / SOURCE.**
- (iii) Ox-bow lakes are usually found in the **UPPER COURSE / LOWER COURSE** of a river.

8. AID

The Irish Government's long term aid to Uganda is called.
[tick ✓ the correct box]

- Tied aid
- Emergency aid
- Multi-lateral development aid
- Bi-lateral development aid

9. CLIMATE STATISTICS

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp. °C	-28	-25	-26	-19	-6	2	4	4	0	-9	-21	-27
Prec. mm	7	5	5	7	7	7	28	20	13	20	10	10

Examine the temperature and precipitation figures for the above weather station.

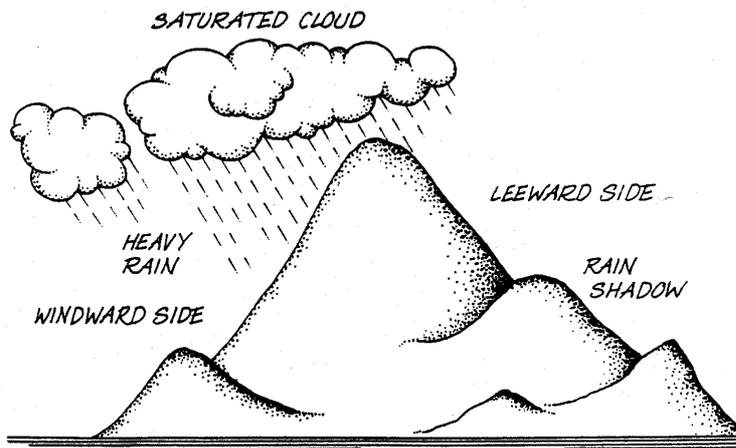
CIRCLE the correct answer in **EACH** of the statements below.

The temperature range is **32°C / 23°C**

Total precipitation for the three warmest months is **61mm / 55mm**

The mean temperature for June, July and August is **10°C / 3.3°C**

10. RAINFALL



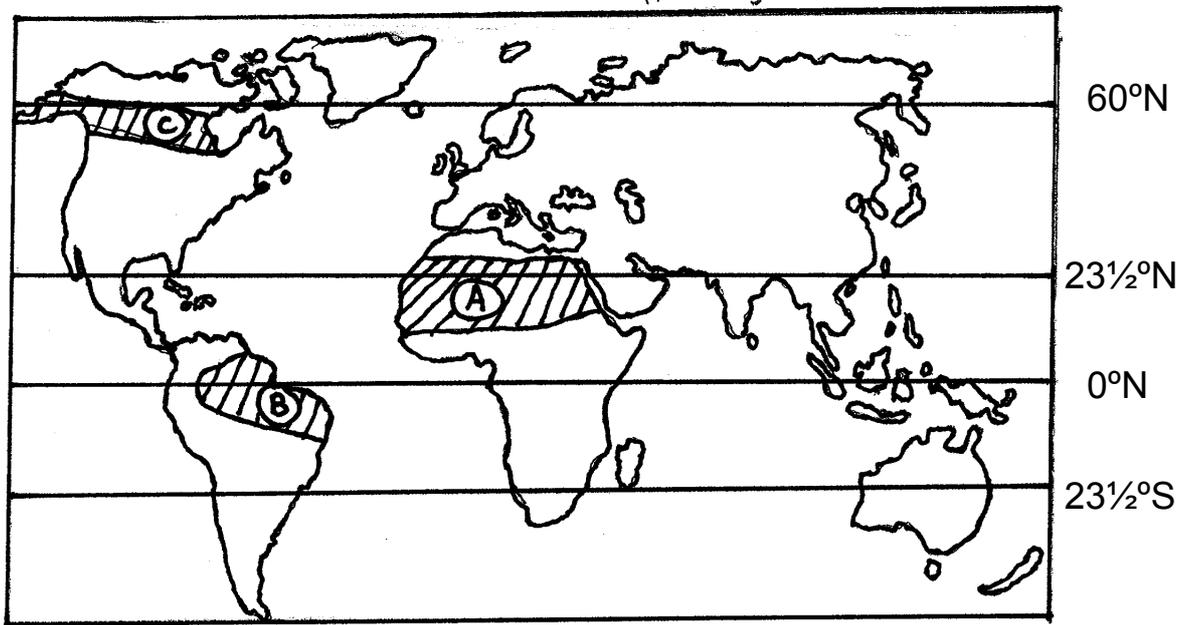
The diagram above shows an example of:

- Relief Rainfall
- Monsoon Rainfall
- Cyclonic Rainfall
- Convectional Rainfall

Answer **EITHER 11A or 11B.**

11A CLIMATIC TYPES

Study the map and circle the correct answer in each case.



The climatic type found at A is

HOT DESERT / TUNDRA

The climatic type found at B is

EQUATORIAL / TEMPERATE

The climatic type found at C is

BOREAL / SAVANNA

OR

11B CLIMATIC MAPS

A line on a climatic map that joins places which have **equal amounts of sunshine** are called:
[tick ✓ the correct box]

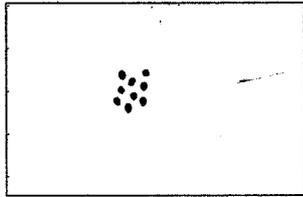
Isobars

Isotherms

Isohels

Isohyets

12. SETTLEMENT PATTERNS



The **settlement pattern** shown on the above sketch map is:

[tick ✓ the correct box]

random

linear

nucleated

dispersed

13. POPULATION PYRAMIDS

AGE IN
YEARS

75 - 89

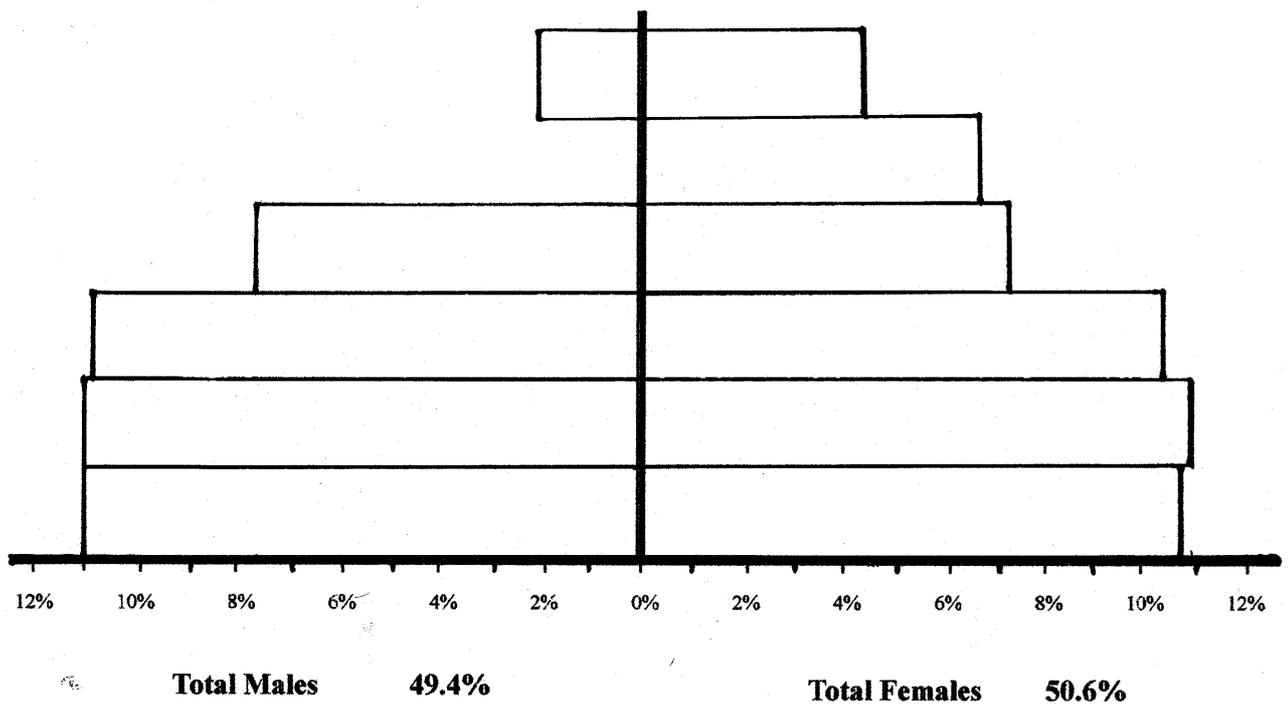
60 - 74

45 - 59

30 - 44

15 - 29

0 - 14



The diagram above shows the population of a West European City. Study the pyramid and answer the following questions:

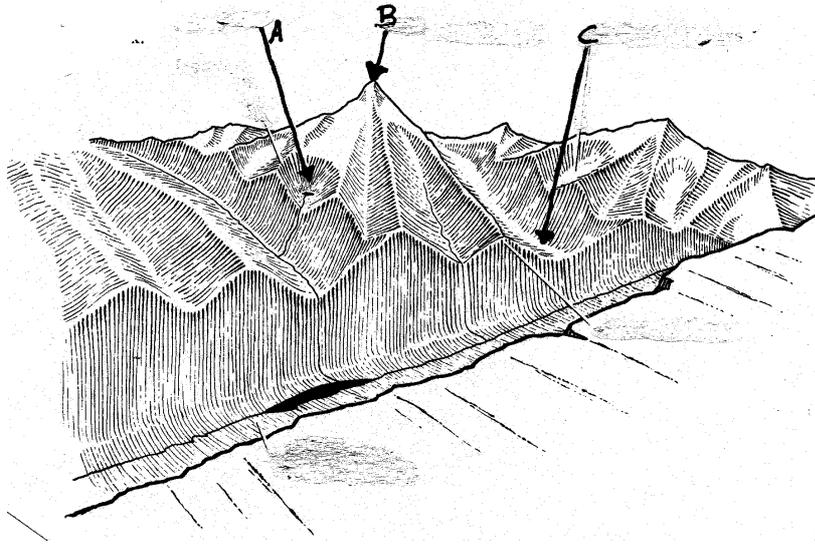
What is the percentage of Males in the 0-14 age group? _____

Complete the pyramid by drawing on the diagram above the following bar
Male 60-74 years (6%).

14. Answer EITHER 14A or 14B

14A GLACIATION

In the spaces provided below the diagram name the features indicated.



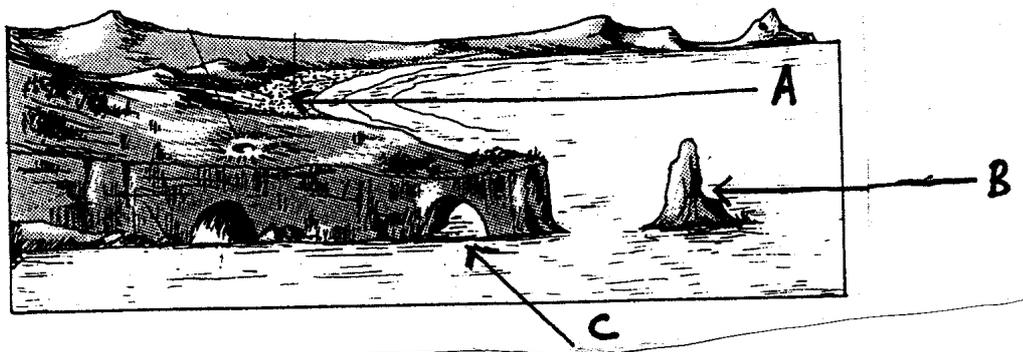
A _____ B _____

C _____

OR

14B THE SEA

In the spaces provided below the diagram name the feature indicated.



A _____ B _____

C _____

15. OVER-POPULATION AND CITIES IN THE DEVELOPING WORLD

Some of the problems associated with over-population are:

1. Overcrowding
2. Low marriage rates
3. Pollution
4. High infant mortality rates
5. High living standards

Not all the answers are correct.

The **THREE** correct statements are numbered:

[tick ✓ the correct box]

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

16. URBAN ZONES

In cities, the main area or zone for business and shopping is called

[tick ✓ the correct box]

- | | |
|----------------------------------|--------------------------|
| 1. The Suburbs | <input type="checkbox"/> |
| 2. The Central Business District | <input type="checkbox"/> |
| 3. The Business Park | <input type="checkbox"/> |
| 4. The Industrial Area | <input type="checkbox"/> |

17. WORLD INEQUALITIES CARTOON



Study the cartoon, which suggests solutions to the problem of World Inequalities. Answer the questions which follow in the spaces provided.

(i) What is the cause of the problem according to the person in the Developed World?

(ii) What is the cause of the problem according to the person in the Developing World?

In Q 18, Q 19 and Q 20 study the Ordnance Survey map and legend (key) supplied.

18. ORDNANCE SURVEY

In the boxes provided match each letter in column X with the number of its pair in column Y. One pair has been completed for you.

X	
A	N 947 952
B	O 017 844
C	N 939 891
D	O 011 926

Y	
1	Between 40m - 50m
2	Spot Height 42m
3	Contour Line 30m
4	Spot Height 127m

A	3
B	
C	
D	

19. ORDNANCE SURVEY

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

X	
A	N 976 922
B	N 937 892
C	O 006 922
D	N 977 848

Y	
1	Motte
2	Souterrain
3	Holy Well
4	Barrows

A	2
B	
C	
D	

20. ORDNANCE SURVEY

In what direction is the river in Grid Square N 99 87 flowing?
 [tick ✓ the correct box]

- East
- West
- North
- South

AN ROINN OIDEACHAIS AGUS EOLAÍOCHTA

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GEOGRAPHY - HIGHER LEVEL

MONDAY, 11 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.

OVER →

SECTION 2

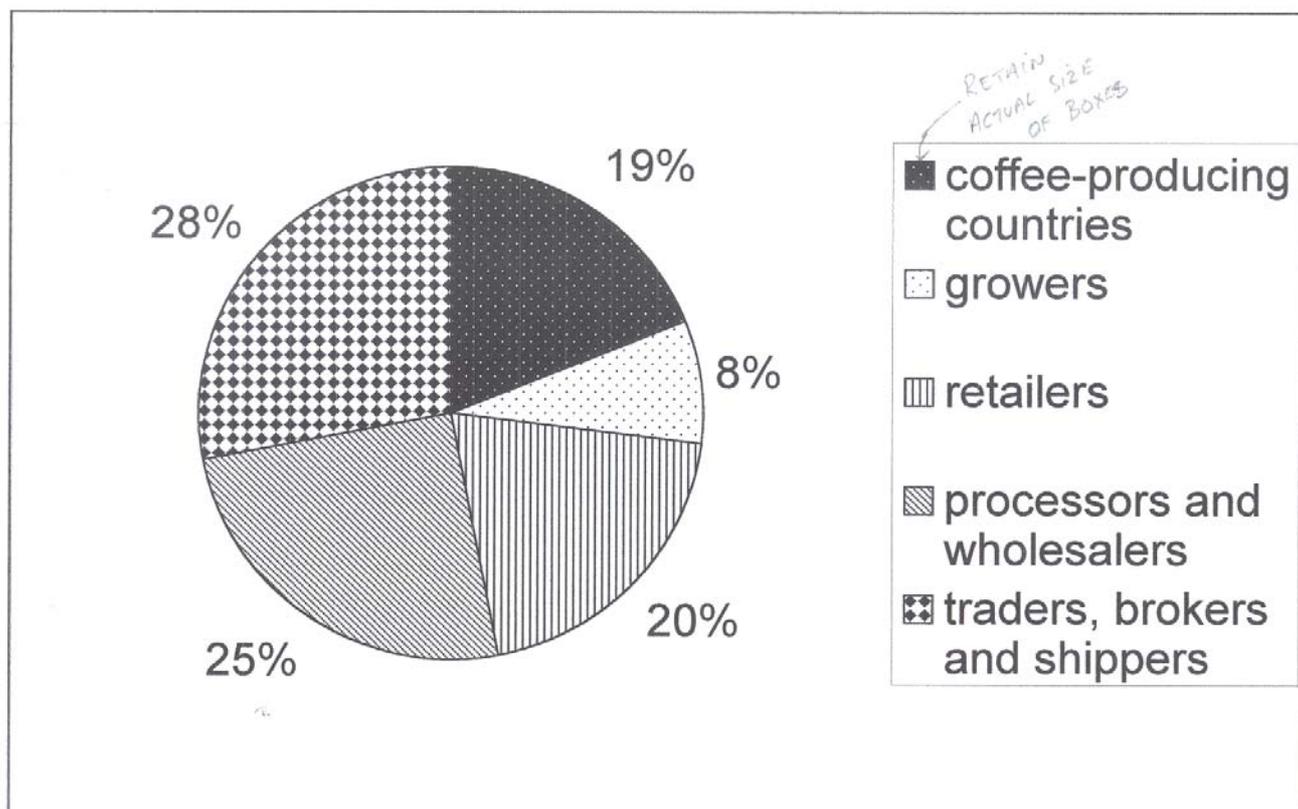
1. ECONOMIC INEQUALITY

(a) "The world can be divided into Developing and Developed countries."

- (i) Explain what is meant by the terms underlined above.
- (ii) State **THREE** differences between Developing and Developed countries.

[10]

(b) Study the diagram below which shows how the income from coffee is divided between the groups involved in its production and marketing.



In relation to coffee, **or** another commodity you have studied, explain **TWO** ways the division of income causes problems for the Developing countries involved.

[10]

(c) (i) **Reducing Military Spending** (ii) **Increasing Aid** (iii) **Cancellation of Debt**

The three items above have been suggested as ways in which the differences between Developed and Developing countries might be reduced. Choose **TWO** of the above and explain how they might reduce the differences. In your answer refer to **ONE** example you have studied.

[10]

2.

GEOGRAPHY MIX

Answer **THREE** of the following (a, b, c, d).

(a) In relation to a **named** example of a manufacturing industry you have studied, explain how these three factors have influenced the location of the industry.

- Transport
 - Labour
 - Access to Raw Materials
- [10]

(b) **The Plantation of Ulster** and **European Colonisation** of South America are examples of organised migration. Choose **one** of the above migrations and explain **THREE** effects the migration had on the area to which the people moved. [10]

(c) (i) Explain **TWO** reasons for the decrease in fish caught in Irish waters in recent decades.

(ii) "*The number of fish in Irish waters has been reduced in recent years.*"

Describe **TWO** steps that are being taken to limit the effects of over-exploitation. [10]

(d) "*Urban planning can sometimes improve the environment in which people live.*" In relation to a **named** example of an Irish city or town that you have studied, explain **TWO** ways in which Urban Planning has improved the environment. [10]

OVER →

3.

LIMESTONE AND THE BURREN

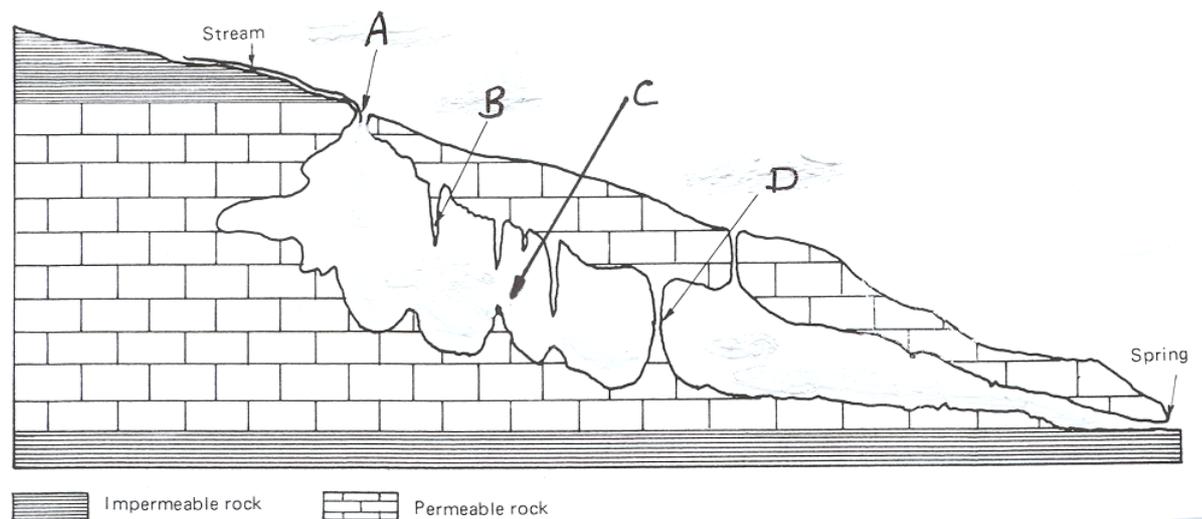
"The Burren is an area of bare limestone in North Clare. Chemical weathering has created a dramatic landscape, both on the surface and underground."

- (a) (i) Explain how limestone is formed. [5]
- (ii) Describe how Chemical weathering occurs. [5]

(b) "The Burren is an example of a Karst Landscape."

Study the diagram of features found in Karst areas.

- (i) Name the features marked **A - D** in the diagram.
- (ii) Choose **TWO** from the list and explain how they were formed. [10]



- (c) Many tourists visit the wide range of attractions in the Burren. While these tourists bring many benefits to the area they also cause some problems. Describe how **TWO** of these problems have affected the Burren. [10]

4. **AERIAL PHOTOGRAPH AND MAP**

- (a) Study the Ordnance Survey map and legend (key) supplied.
- (i) What is the distance, in kilometres, along the N2 road from the junction with the 3rd class road [N 994 848] to the junction with the R170 road at [N 963 903]? [4]
- (ii) If you were travelling in a straight line **TO** Ardee **FROM** the following places in what direction would you be travelling in each case?
- | | | | |
|----|----------------------|-------------|-----|
| 1. | Loughanmore | [O 009 959] | |
| 2. | Blakestown Cross Rds | [N 965 878] | |
| 3. | Knocklore | [N 931 953] | [6] |
- (b) Using evidence from the map only, explain **THREE** reasons why Ardee developed at this location. In your answer refer to both the past and present. [12]
- (c) (i) Using both the photograph of Ardee and the map, state the direction in which the camera was pointing when the photograph was taken.
- (ii) At what time of the year was the photograph taken? Suggest **TWO** pieces of evidence from the photograph to support your answer. [8]

5. **AERIAL PHOTOGRAPH AND MAP**

The Aerial Photograph of Ardee and Ordnance Survey Map should be used in only Part (c) of this question. Use the photograph only in Parts (a) and (b).

As it is not a vertical photograph, refer to the location of places as 'background' 'right foreground' etc.

- (a) Using the photograph only, draw a sketch map of the part of Ardee town shown. Mark on and identify the following:
- | | |
|-------------------------|--------------------------|
| • two connecting roads | • a church and graveyard |
| • an historic building | • grain silos |
| • a timber storage area | |
- [10]
- (b) (i) "*The main street in Ardee runs across the photograph from left centre to right centre*". With reference to the photograph, give **TWO** pieces of evidence to support the statement that this is Ardee's main street.
- (ii) Briefly explain **ONE** advantage and **ONE** disadvantage in living along the main street of a town like Ardee. [10]
- (c) The local authority for this area is going to build a new shopping centre in the area shown on the photograph.
- (i) Identify the part of the photograph in which you would locate this shopping centre.
- (ii) With reference to both the photograph and the map give **ONE** advantage and **ONE** disadvantage of this location. [10]