



Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2003

GEOGRAPHY - HIGHER LEVEL

MONDAY, 9th JUNE - AFTERNOON, 1.30 TO 3.30

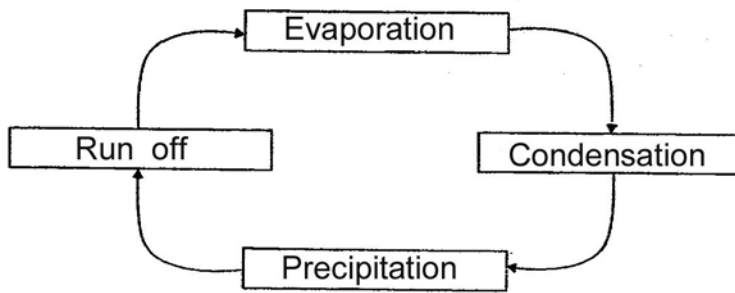
SECTION 2 (90 MARKS)

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.

1. **Resources and Economic Activity**

The Water Cycle



A. Water

- (i) With the aid of the diagram of the **Water Cycle** explain how water is a renewable resource. (6)
- (ii) **“Water is a scarce resource in some parts of the world”**

With reference to an Irrigation Scheme you have studied:

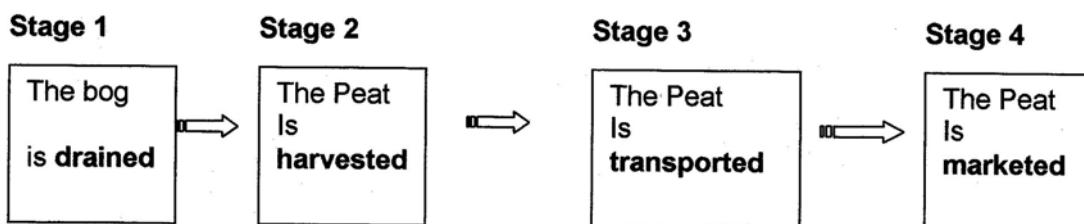
- Name the scheme.
- Outline its operation.
- Discuss **two** benefits of the scheme to the local population. (10)

B. Peat

- (i) **“The use of technology has speeded up the rate of exploitation of the Irish peat lands.”**

The diagram below shows the stages in the exploitation of a bog. Use this diagram to explain **three** ways technology has been used to exploit the bogs. (8)

Stages in the Exploitation of a Bog.



- (ii) **“In the future, Bord na Mona may use the Cutaway Bogs for wind farms.”**

Suggest **three** advantages the Cutaway Bogs have for the location of wind farms.

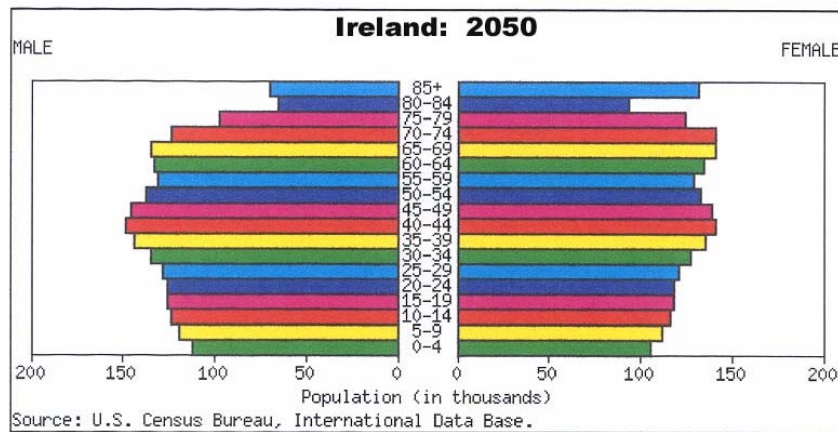
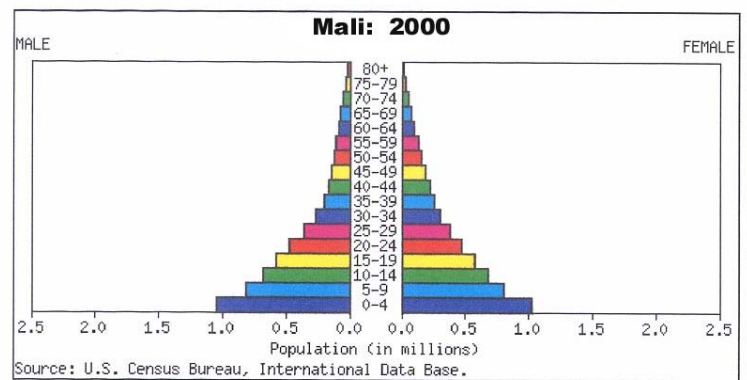
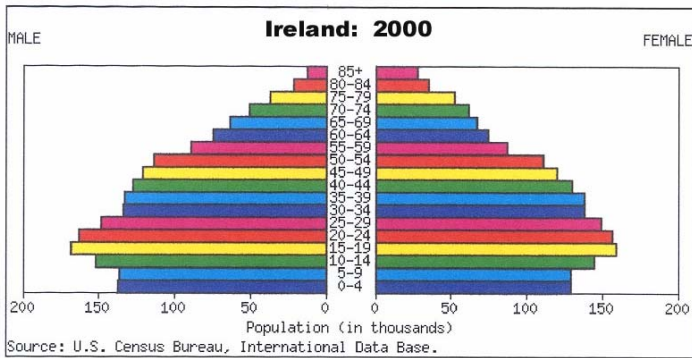
Or

Suggest **three** other ways in which the cutaway bogs might be used in the future. (6)

OVER →

2. Population

Population Pyramids of Ireland 2000, Mali 2000 and Population estimate of Ireland 2050.



A. Examine the Population Pyramids of Ireland 2000 and Mali 2000.

Identify the differences in the **structures** of these two populations.

In your answer refer to:

- Birth Rates
- Death Rates
- Life Expectancy

(12)

B. Examine the Population Pyramids for Ireland 2000 and Ireland 2050.

Describe **two** contrasts between the actual population figures for Ireland in 2000 and the estimated figures for 2050.

(10)

C. Estimated population projections for the future.

How do estimated figures such as the ones shown for Ireland in 2050 help in planning for:

- Health Services
- Education services.

(8)

OVER →

3. **GEOGRAPHICAL MIX**

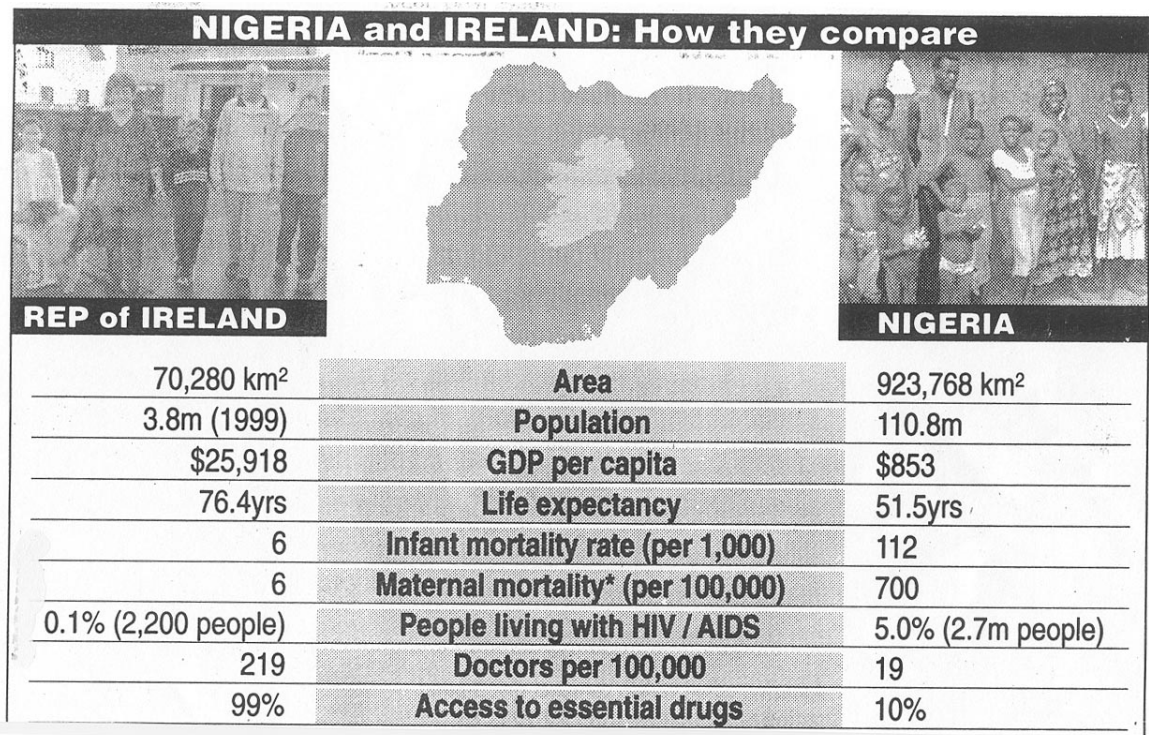
Answer **THREE** of the following **A, B, C, D**

A. Greenhouse Effect / Climatic Change.

- (i) Describe the causes of the increase in global temperatures. You may use a diagram to help in the explanation. (4)
- (ii) Explain how **TWO** of the following might help to ease the problem of global warming:
 - Energy Conservation.
 - Use of Renewable energy sources.
 - Increase the area planted with trees. (6)

B. World Inequalities.

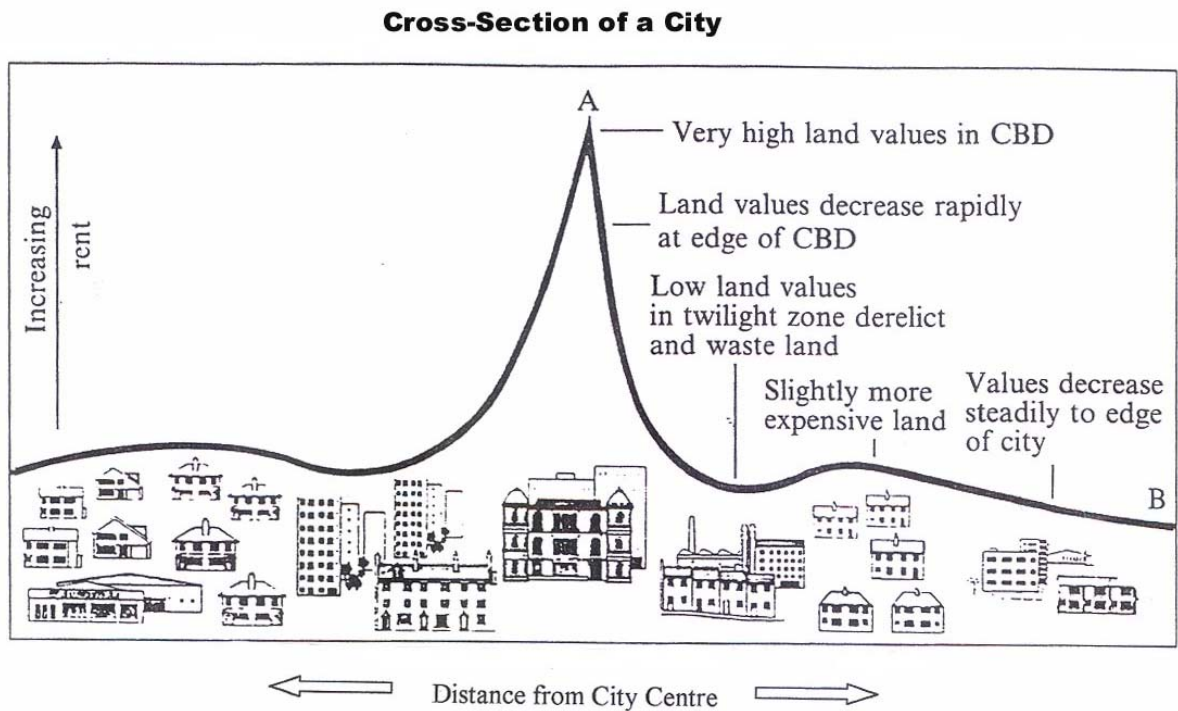
Examine the chart comparing **Ireland** and **Nigeria** and answer the questions that follow:



- (i) Select from the chart **three** statistics showing that Nigeria is less developed than Ireland. (6)
 - (ii) Outline **two** types of aid Ireland could provide to Nigeria to help it develop. (4)
- In your answer name the type of aid and discuss the likely effects of each. (4)

C. Urban Geography.

Examine the diagram of the cross-section of a city and answer the questions that follow:



- (i) With reference to the diagram, state which part of the city has the highest land values.

Explain **two** reasons why land values are high in that part of the city.

(4)

- (ii) Use **the photograph** of Carlow town to answer this part of the question.

“Parts of an urban area are given over to particular land uses.”

With reference to the photograph of Carlow town, locate and describe **two** land-uses in the town. (6)

(**Note:** As it is not a vertical photograph, refer to places as ‘background’, ‘right foreground’ etc.)

D. Soil

- (i) Explain **two** ways soil is important to humans.

(4)

- (ii) With reference to **two** of the following factors explain their role in soil formation.

■ Original rock,

■ Climate,

■ Micro-organisms,

■ Vegetation.

(6)

4. **ORDNANCE SURVEY AND AERIAL PHOTOGRAPH**

Study the Ordnance Survey map and the legend (key) supplied.

A. Draw a sketch map of the area shown on the Ordnance Survey map.

Mark **and** identify the following features:

- The river Barrow and one named tributary.
- One National Primary road and one National Secondary road.
- The town of Carlow
- An area above 300 meters
- Two antiquities (12)

B. **The Local Authority has made efforts to reduce traffic congestion in the town of Carlow.**

Using the **photograph only** describe **two** such measures. (6)

C. Using **both** the map and the photograph explain **three** reasons why the town of Carlow developed at this location. (12)

5. **TOURISM**

Climatic data for Dublin and Lanzarote (Canary Islands)

Mean Temperature (°Celsius)

Months	April	May	June	July	August	Sept.	Oct.
Dublin	14°C	15°C	16°C	18°C	20°C	16°C	12°C
Lanzarote	18°C	23°C	26°C	30°C	32°C	25°C	20°C

Hours of bright sunshine:

Months	April	May	June	July	August	Sept.	Oct.
Dublin	5	6	5.5	5	6	4	3
Lanzarote	7	9	10	11	10	7	5

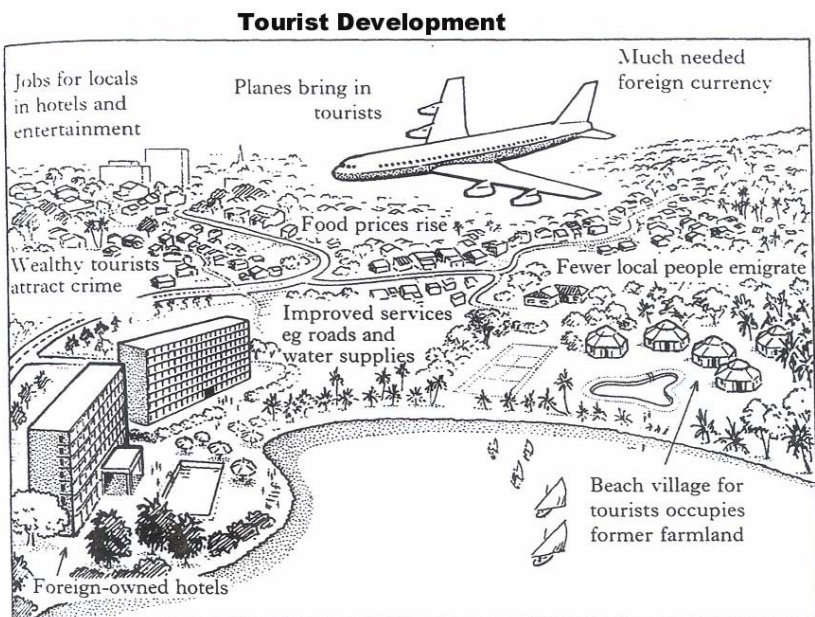
A. With reference to the information above explain why Lanzarote would be a better choice than Dublin for the location of a 'beach holiday'. (10)

B. Tourists are attracted to locations other than beaches for a holiday, these include:

- Areas of Natural Beauty
- Cities
- Sporting and Recreation facilities.

With reference to specific examples you have studied discuss **two** of these attractions. (10)

C. 'Tourism may have positive and negative effects on people and the environment'



With reference to the diagram provided discuss **two** of these effects.

In your answer refer to both positive and negative effects. (10)

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