

**Marking Scheme – Geography – Junior Certificate
Higher Level 2009
Section 2**

Question 1. **RAINFALL, GLOBAL WARMING AND ACID RAIN**

A. Relief Rainfall

Explain with the aid of a diagram how **relief rainfall** occurs. (10)

Two explanations @ 5 marks (St: 2 mks + Dev 2mks + ref to diagram 1mk.)

B. Acid Rain

The **map below** indicates acid rain levels throughout Europe.

- (i) According to this map which **one** of the following countries is likely to **suffer most** from the effects of acid rain: *Spain, The UK, France, Sweden?* (2)

One name @ 2 marks

Suggested answer.

Sweden

- (ii) Describe **two impacts** (effects) of acid rain. (6)

Two impacts @ 3marks each (St. 2 mks + Dev. 1mk.)

C. Global Warming

- (i) Answer the following questions that relate to *the newspaper extract provided*:

- (a) By how much have average temperatures increased in Ireland over the past one hundred years?

Name temperature @ 2 marks

Suggested answer.

0.7°C

- (b) Which parts of the country are likely to be worst affected by the climate changes mentioned in the extract?

Name parts @ 2 marks (1mk + 1mk)

Suggested answer.

South and East.

(4)

- (ii) Describe **two causes** of global warming. (8)

Two causes @ 4 marks (St: 2mks + Dev 2mks)

Q.2. **AGRICULTURE AND IRRIGATION**

A. An Irish Farm

Examine the sketch map of an Irish farm below and answer the questions which follow:

- (i) What is the size in hectares of the largest field on the farm?
Area @ 2marks
Suggested answer.
15.9 hectares
- (ii) How many hectares in total are devoted to barley?
Area @ 2marks
Suggested answer.
13.2 hectares
- (iii) The total area of the farm is 60 hectares. Calculate the percentage of the land that is devoted to permanent grass.
Percentage @ 2marks
Suggested answer.
40 %
- (iv) Why is the growth of coniferous trees an appropriate land use for the 3.1 hectare field at the north of the farm? (11)
Reason @ 5 marks (St. 3mks + Dev 2mks)

B. Farming as a System

Farming is a system with **inputs, processes and outputs**.

Explain these **three** terms and give an example of **each**. (9)

Three explanations @ 3 marks (St. 2mks + Ex 1mk)

C. Irrigation

Farms throughout the world sometimes benefit from major irrigation projects.

- (i) What is meant by the term '**irrigation**'?
Definition @ 2 marks
- (ii) Describe any **one** major irrigation project that you have studied. (10)
Name of project @ 2 marks
Central Valley California

Two description @ 3 marks (St. 2mks + Dev 1mk)

Question 3. POPULATION, DEVELOPING WORLD CITIES AND BILATERAL AID

A. Examine the population pyramids below.

One of the pyramids represents a developing country and the other represents a developed country.

- (i) State which pyramid shows the population structure of a **developing country**.

Name @ 2 marks

Suggested answer.

Pyramid B

- (ii) Describe **two major contrasts** (differences) between the population structures of these two countries. **Refer to both population pyramids** for **each** contrast that you describe. (10)

Two descriptions @ 4 marks (St. 2mks + Dev 2mks)

B. High population densities have contributed to serious problems in many cities in the Developing World.

- (i) Name **one** city in the Developing World that you have studied.

One name @ 2 marks

Suggested answer.

Calcutta

- (ii) Describe **two major problems** in the named city. (10)

Two descriptions @ 4 marks (St. 2mks + Dev 2mks)

C. Some countries such as Ireland provide bilateral aid to reduce poverty in the Developing World.

- (i) What is meant by the term '**bilateral aid**'?

One meaning @ 2 marks

- (ii) Outline **one argument in favour of** and **one argument against** the use of aid as a means of assisting countries of the Developing World. (10)

Two arguments @ 4 marks (St. 2mks + Dev 2mks)

Question 4. GEOGRAPHICAL MIX

Answer **three** of the following questions **A, B, C** and **D**.

Mark all answers attempted by candidates, but credit marks for the best three only. Square bracket the surplus question.

A. Earthquakes

- (i) Name **one** place where earthquakes occur.
One name @ 2 marks
Suggested answer.
San Andreas Fault California , any relevant place on a plate margin.
- (ii) Examine the diagram showing the shockwaves of an earthquake and name the areas labelled **A** and **B**.
Two areas @ 1 mark each
Suggested answer.
A = Focus
B = Epicentre
- (iii) Briefly describe the **cause** of earthquakes. (10)
One Description @ 6 marks (St. 2mks + Dev 2mks + Dev 2mks)

B. Tourism

- (i) Name **four** reasons why tourists come to Ireland.
4 names @ 1 mark each
- (ii) Large-scale tourism may have **unwelcome impacts** on some tourist areas.
Describe **two** such impacts. (10)
2 Descriptions @ 3 marks each (St. 2mks + Dev 1mk) (10)

C. Human Migration

- (i) Examine the bar chart, which shows the numbers of immigrants from a selection of regions who lived in Ireland in 2002 and in 2006.

(a) From which country did most immigrants come in 2006?

Name of country @ 1 mark

Suggested answer.

U.K.

(b) From which country did immigration to Ireland grow most rapidly between 2002 and 2006?

Name of country @ 1 mark

Suggested answer.

Poland

(c) Calculate the increase in the numbers of immigrants from Lithuania to Ireland between 2002 and 2006. (4)

Calculation @ 2 marks

22,000

- (ii) Explain the following terms relating to human migration:

(a) Pull factors.

One explanation @ 3 marks (St. 2mks + Dev 1mk)

(b) Emigrant.

(6)

One explanation @ 3 marks (St. 2mks + Dev 1mk)

D. The aerial photograph

Examine the aerial photograph provided with this examination paper.

- (i) Identify and locate **two** types of **urban** land-use to be seen on the photograph.

Two urban land-uses @ 2 marks each (Id. 1mk + loc. 1mk)

- (ii) At what time of year was this photograph taken? Explain **one** reason for your answer. (10)

Time of year @ 2 marks

One explanation @ 4 marks (St. 2mks + Loc 2mks)

Question 5. ORDNANCE SURVEY MAP

Examine the Ordnance Survey map provided.

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

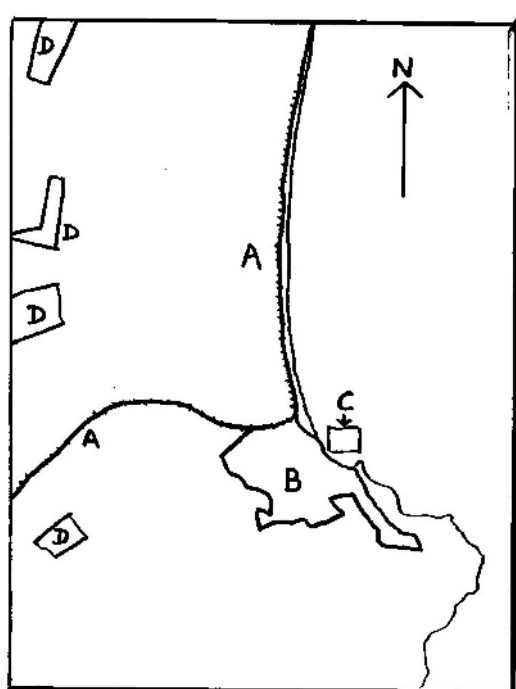
Show and label each of the following on your sketch:

- The entire length of the railway line as shown on the map
- The built up area of Wicklow town
- Boating activities
- An area of coniferous forest.

(10)

Four features @ 2mks

Frame of map @ 2mks (Shape 1 mk + orientation 1 mk)



A = Railway line
B = Built up area
C = Boating activity
D = Area of coniferous forest.

B. (i) Estimate in square kilometres the area of the sea shown on the map. (4)

Area @ 4 marks

Suggested answer.

36/37 square kilometers

(ii) Measure in kilometres the length of the railway line from the railway station in Wicklow at T 307 947 to where it leaves the map at T 260 933. (4)

Distance @ 4 marks

Suggested answer.

5.4/5.6 kilometres

C. Explain **three** reasons why the town of Wicklow developed at this location. (12)

Three reasons @ 4 marks (St. 2mks + Dev 1mk + Ev. 1mk)