

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, 2003

GEOGRAPHY - HIGHER LEVEL

SECTION 1 - FOLDER

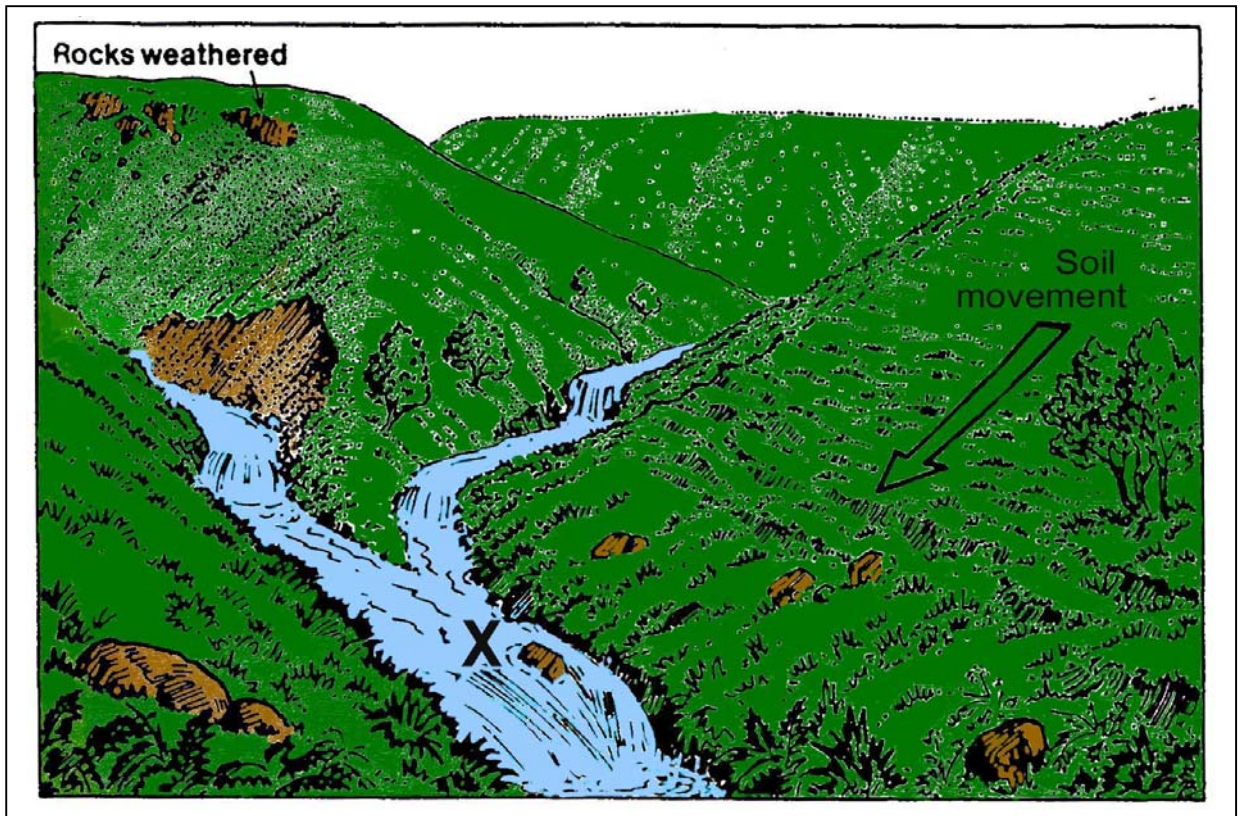
MONDAY 9th JUNE - AFTERNOON, 1.30 TO 3.30

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. RIVERS

Examine the field sketch of a river and answer the questions that follow.



- (i) The sketch was drawn in the _____ course/stage of the river.
- (ii) **Insert** the letter **C** at the confluence of the two streams.
- (iii) The volume of water has **increased/decreased** at X in the diagram.
Circle the correct word.

2. WEATHER CONDITIONS OVER WESTERN EUROPE

Examine the weather map and answer the questions below.

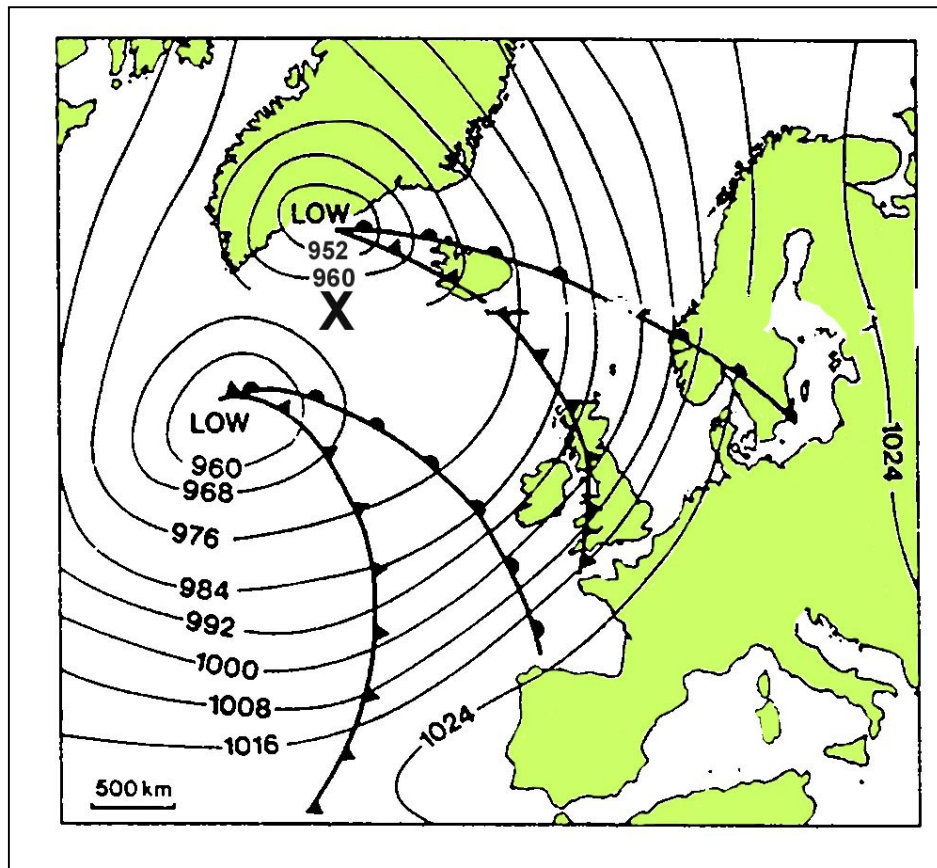
(i) **Insert** the word HIGH in an appropriate place on the map.

In parts (ii) and (iii) **insert** the missing number/word.

(ii) The **missing number** at X is _____ millibars.

(iii) The rainfall along the west coast of Britain is caused by the presence of a _____ front.

Weather Conditions over Western Europe



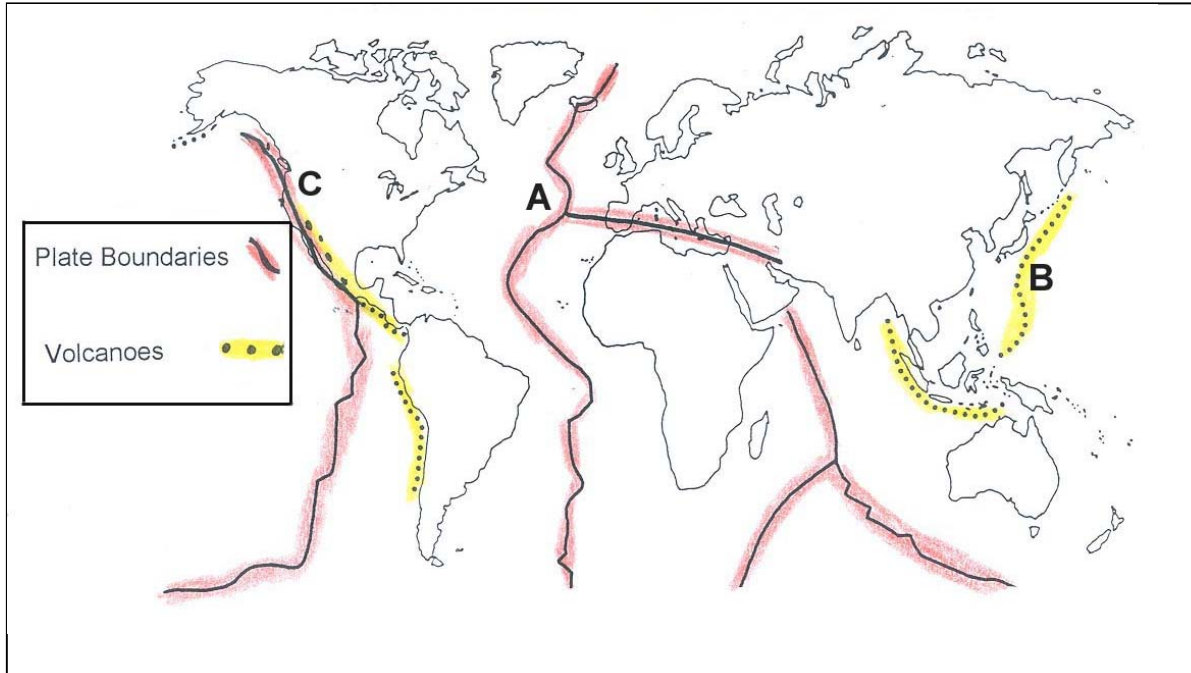
ANSWER EITHER 3A OR 3B

3A. PLATE BOUNDARIES

The map below shows the location of some Plate Boundaries and Volcanoes.

Circle the correct answer in each of the statements below.

- (i) The area marked A is the **Mid-Atlantic Ridge / Mid Pacific Ridge.**
- (ii) The area marked B is the **Pacific Ridge / The Pacific Ring of Fire.**
- (iii) The area marked C has Fold Mountains known as **The Rockies / The Andes.**



OR

3B. ROCKS

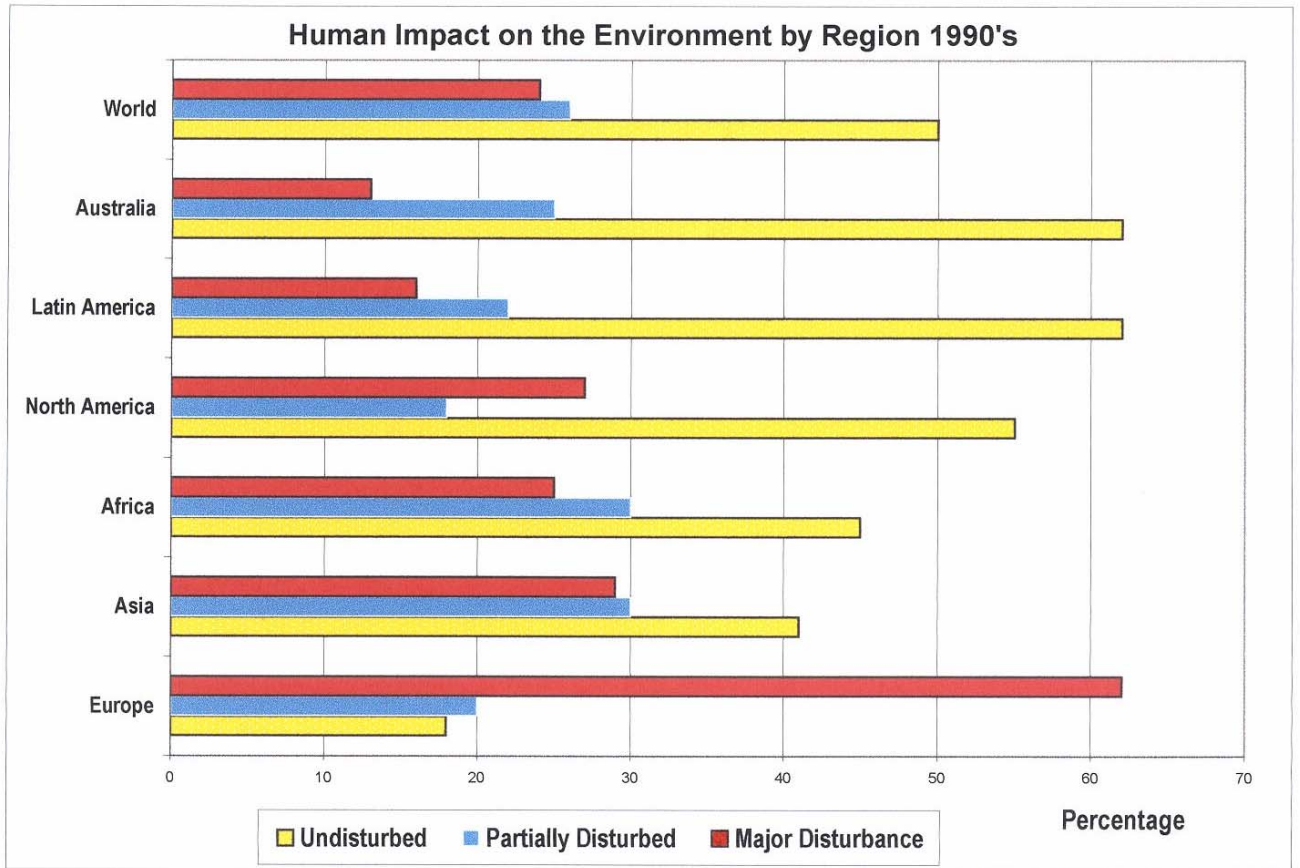
In the boxes provided, match each letter in column X with the number of its pair in column Y. One match has been completed for you.

Column X	
A	Ireland's most common Sedimentary Rock
B	Metamorphic Rock that was once Sandstone
C	Igneous Rock found at the Giant's Causeway, Co. Antrim
D	Coarse multi-coloured Igneous Rock found in Wicklow
E	A fossil fuel found in the Midlands of Ireland

Column Y	
1	Quartzite
2	Granite
3	Limestone
4	Basalt
5	Peat

A	3
B	
C	
D	
E	

4. HUMAN IMPACT ON THE ENVIRONMENT BY REGION



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

1. Europe shows the greatest % of major disturbance.
2. Latin America shows the greatest % of partially disturbed area.
3. Australia and Latin America show the greatest % of undisturbed area.
4. In Asia the % undisturbed is less than the % of major disturbance.
5. In North America the % of major disturbance is less than in Europe.

The correct statements are numbered.

Tick (✓) the correct box.

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

5. URBAN GEOGRAPHY

A **Dormitory Town** is:

Tick (✓) the correct box.

- | | |
|--|--------------------------|
| A town with many functions. | <input type="checkbox"/> |
| A town built near a mine. | <input type="checkbox"/> |
| A town where people live but work in another town. | <input type="checkbox"/> |
| A town with a declining population. | <input type="checkbox"/> |

ANSWER EITHER 6A OR 6B

6A. WEATHER RECORDING

Look at the data below that shows data for weather elements during a 7 day period.

Climate Data for Dublin Airport, September 2002.

Date	Average Temperature (°C)	Rainfall (mm)	Sunshine (hrs)	Wind Direction
1	14.4	0.9	3.7	W
2	12.1	12.6	1.0	S
3	16.8	11.3	1.7	S
4	14.5	10.4	8.3	SW
5	14.7	0.0	4.1	SW
6	13.5	1.6	4.0	SW
7	15.1	0.4	0.0	W

Circle the correct answer in each of the following sentences.

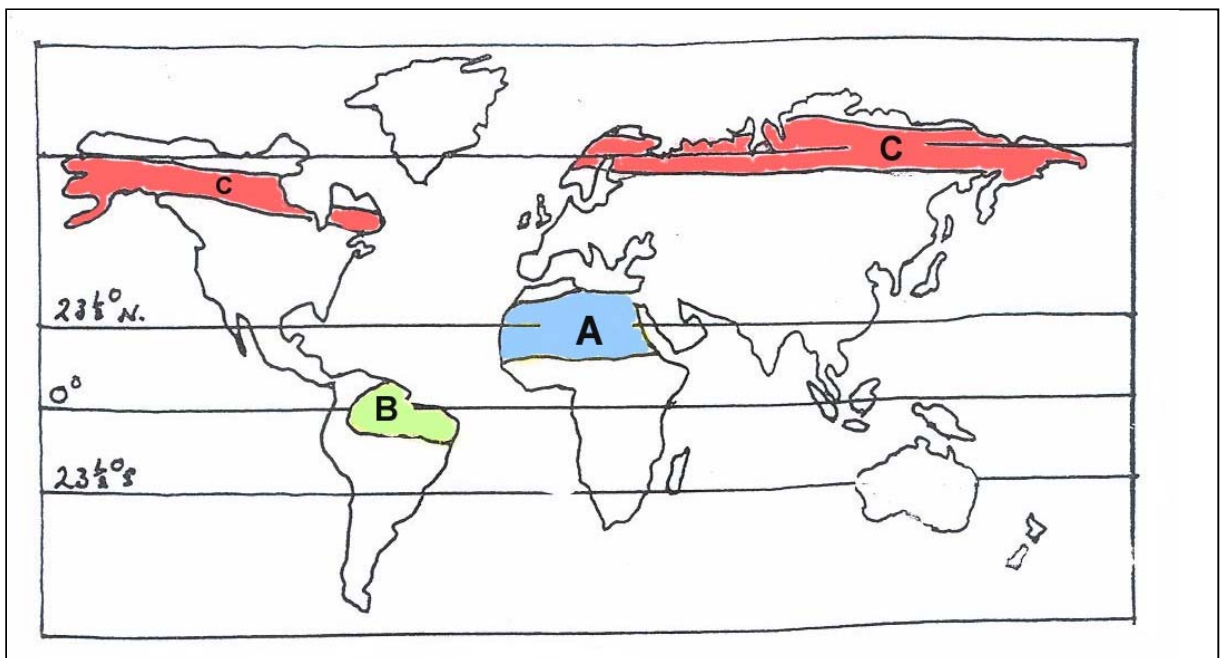
- (i) The **Temperature Range** over the 7 day period was 4.7°C / 2.4°C.
- (ii) The **Total Precipitation** for the week was 38.4mm / 37.2 mm.
- (iii) The day with the **least** amount of sunshine was day 2 / day 7.

OR

6B. CLIMATE REGIONS

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

- (i) The climate type found at A is **Hot Desert** / **Tundra**.
- (ii) The Climate type found at B is **Equatorial** / **Temperate Oceanic**.
- (iii) The Climate type found at C is **Savanna** / **Boreal**.

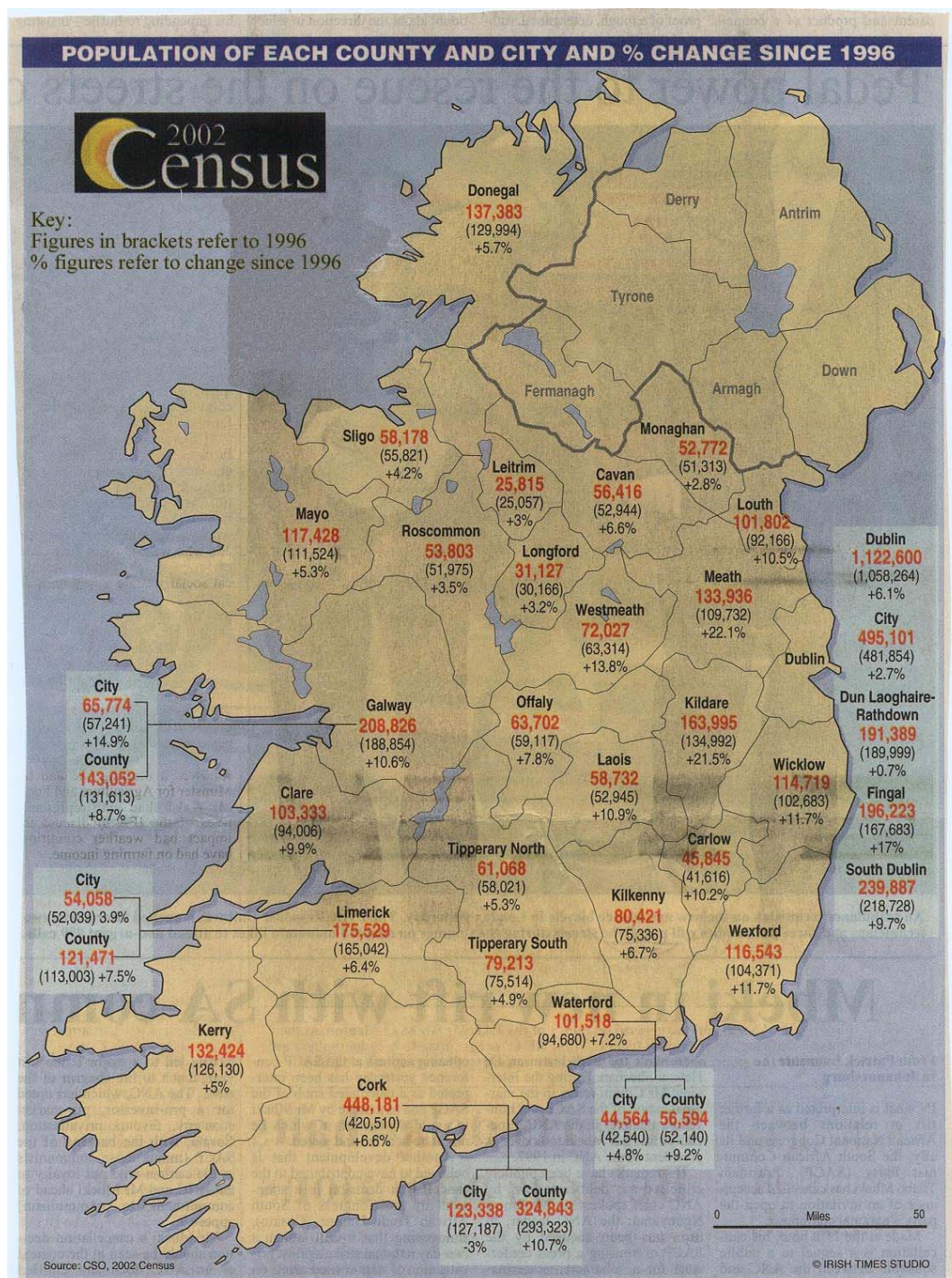


7. CENSUS 2002 & POPULATION CHANGE IN THE REPUBLIC OF IRELAND

Examine the map showing % population change in each county and city since 1996.

Circle the correct answer in each of the sentences (i) and (ii) below.

- (i) County Dublin has a population of **less than** / **greater** than 1million.
- (ii) Galway City had a **greater** / **lesser** % increase than Waterford City.
- (iii) Suggest one reason for the large increases in counties Meath (22.1%) and Kildare (21.5%)
Reason:



8. POPULATION CYCLE

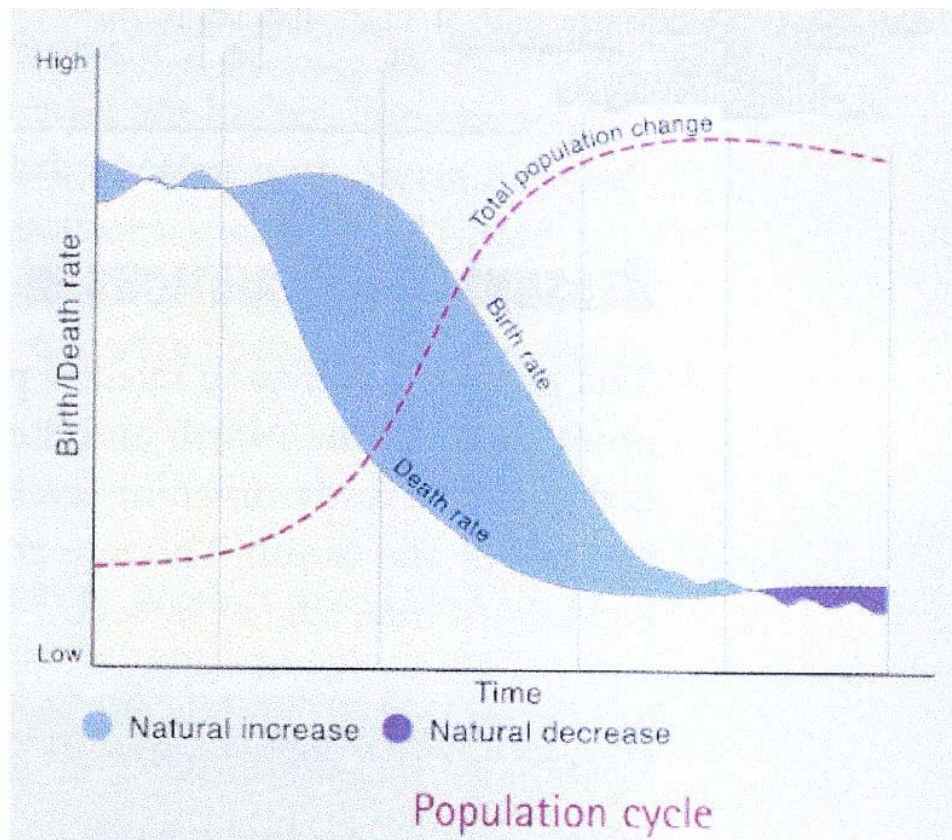
Circle the correct answer in each of the statements below:

Stage 1 is referred to as **High Fluctuating Stage / Low Fluctuating Stage**.

In Stage 2 population increases rapidly because of a decline in the **Birth Rate / Death Rate**.

Stage 4 represents the population trends in **Developed Countries / Developing Countries**.

Stages 1 2 3 4 5



9. CLIMATE AND VEGETATION.

Study the diagram below of a **coniferous tree** that shows how it has adapted to the climate in which it grows.

Tick (✓) the correct box.

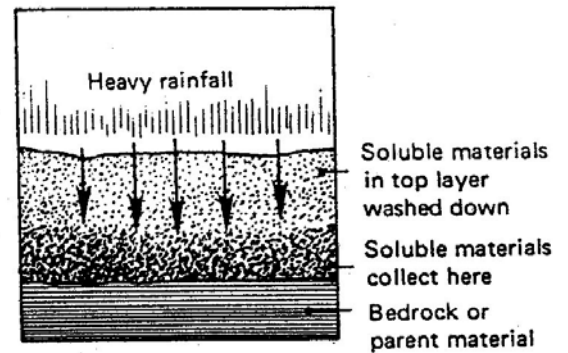
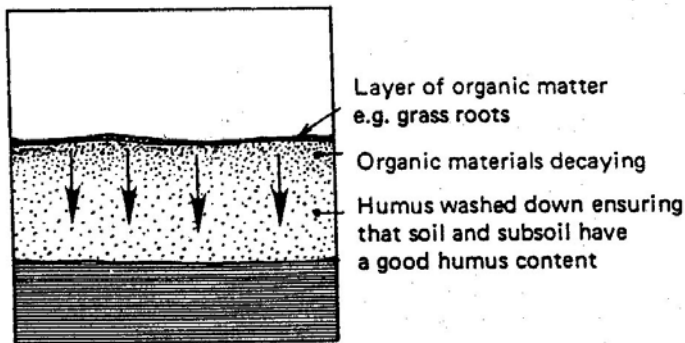


- Deep Roots
- Needle-like leaves
- Broad leaves
- Thin bark

10. SOIL

The diagrams below show the processes of **Humification** and **Leaching**.

Insert the appropriate word in the space provided under each diagram.



Answer either 11A or 11B

11A. GLACIAL FEATURES

Which of the following are **ALL** landscape features of glacial erosion.

Tick (✓) the correct box.

- (a) Hanging valleys, pyramidal peaks, drumlins, arêtes.
- (b) Corries, eskers, hanging valleys, moraines.
- (c) Corries, arêtes, glacial valleys, pyramidal peaks.
- (d) Moraines, corries, eskers, hanging valleys.

OR

11B. COASTAL FEATURES

Which of the following are **ALL** landscape features of sea erosion.

Tick (✓) the correct box.

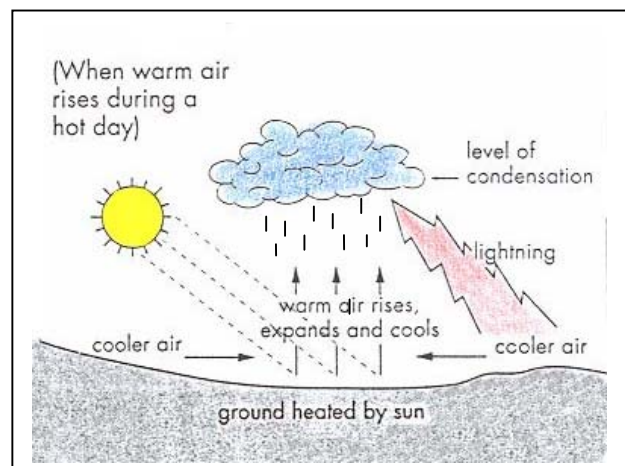
- (a) Sea cliff, wave-cut platform, sea arch, sand bar.
- (b) Sea cliff, sea cave, blow hole, sand beach.
- (c) Sea cave, sea arch, sea cliff, sea stack.
- (d) Sea arch, beach, sand spit, cliff.

12. RAINFALL

The type of Rainfall shown in the diagram below is:

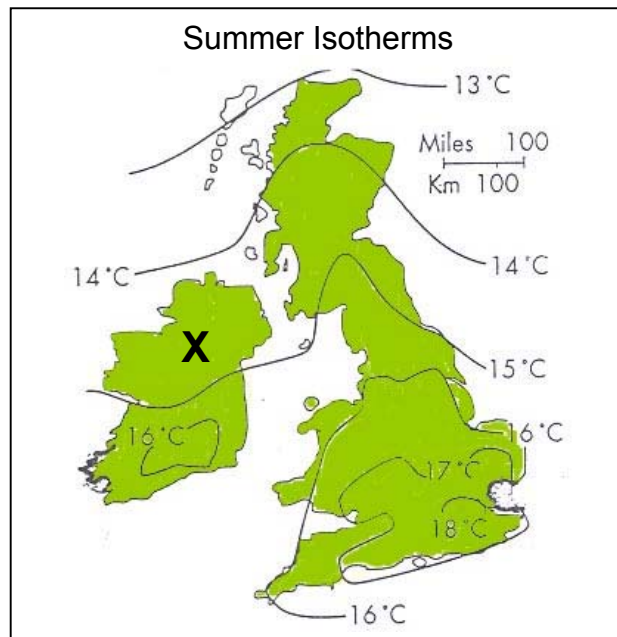
Tick (✓) the correct answer.

- (a) Relief Rainfall
- (b) Frontal Rainfall
- (c) Light Rainfall
- (d) Convectional Rainfall



13. FACTORS AFFECTING CLIMATE

Examine the map showing summer isotherms for Ireland & Britain



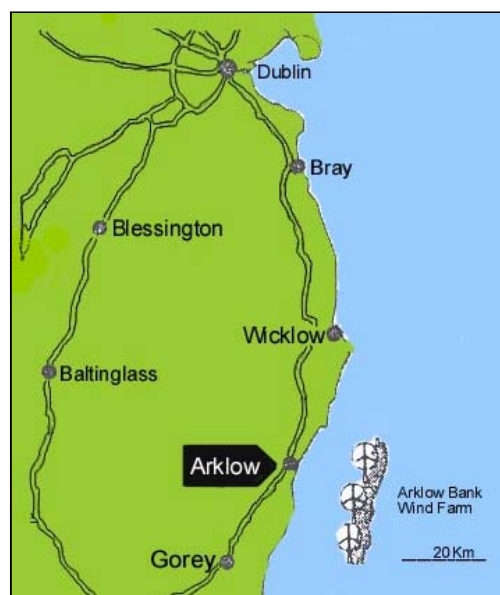
Circle the correct answer in each of the following sentences:

- (i) The temperature at X is **greater than 16°C / less than 15°C**.
- (ii) In most cases, temperatures along the coast are **higher / lower** than inland.
- (iii) In general, temperatures **increase / decrease** as one goes north.

14. RENEWABLE ENERGY

The map shows a proposed Wind Farm off the Wicklow coast.

Wind Farms off Wicklow



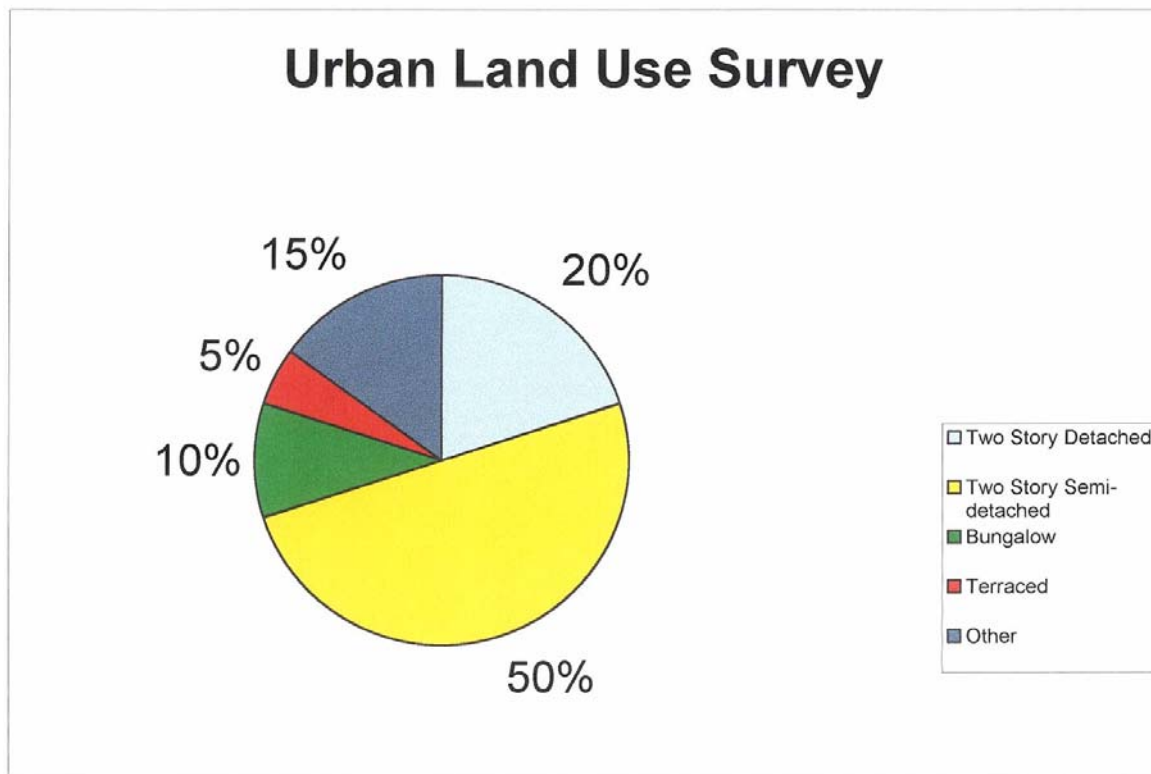
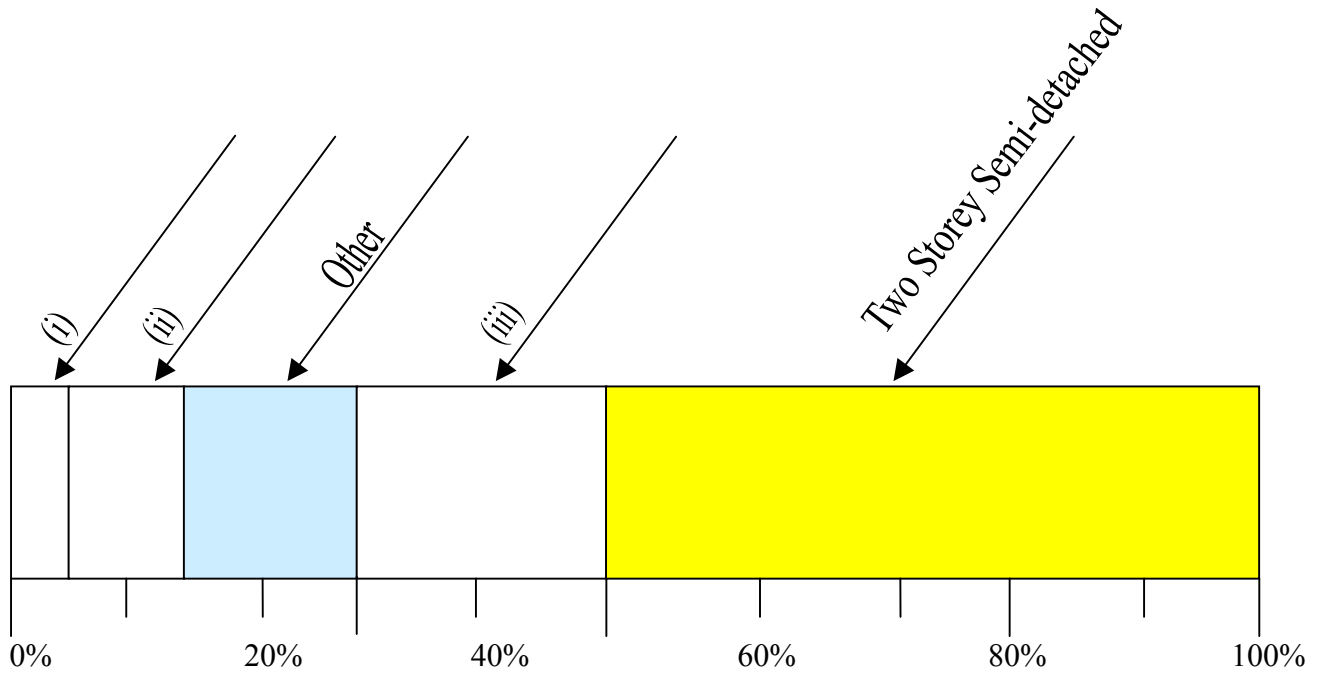
Name three other sources of renewable energy.

1 _____ 2 _____ 3 _____

15. STATISTICAL SKILLS

On the lines numbered (i), (ii) and (iii) label the divided rectangle below using the information shown on the pie chart.

Two labels have been added for you.



16. POPULATION STRUCTURE

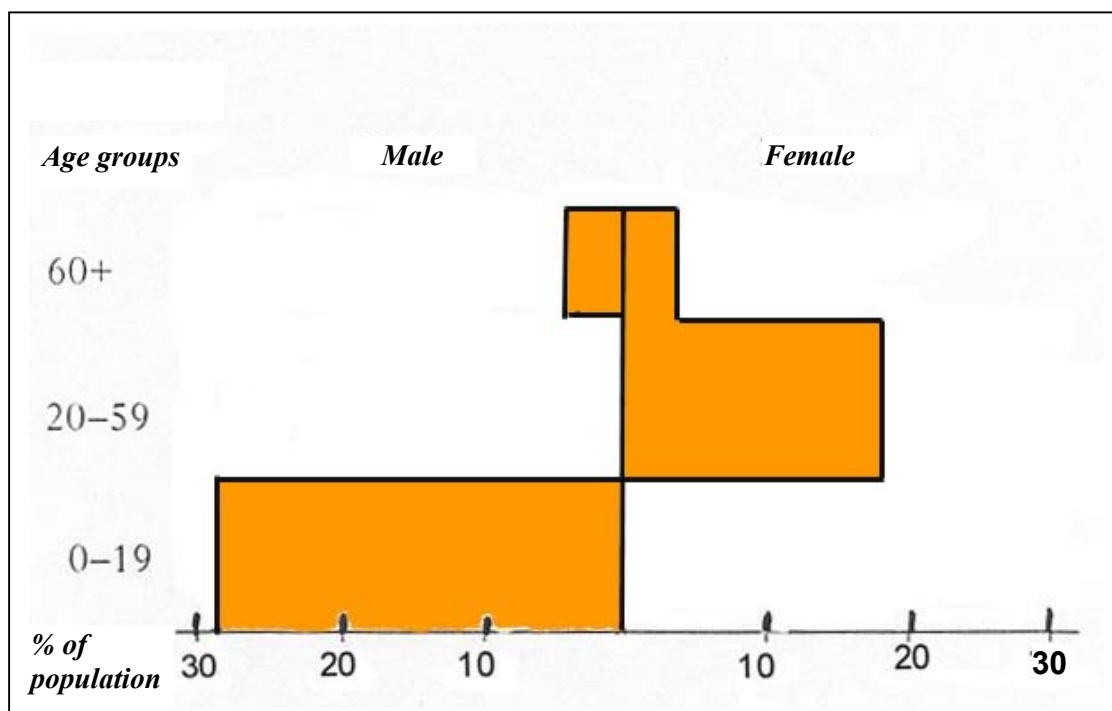
The table below shows the population structure for Nigeria. You are provided with a partially completed Age-Sex Pyramid.

- (i) Complete the pyramid using the figures in the table.
- (ii) The pyramid suggests that Nigeria is a **Developing / Developed country**.

Circle the correct answer.

	Age Groups	Male % of population	Female % of population
Nigeria	60+	3	3
	20-59	19	18
	0-19	28	29

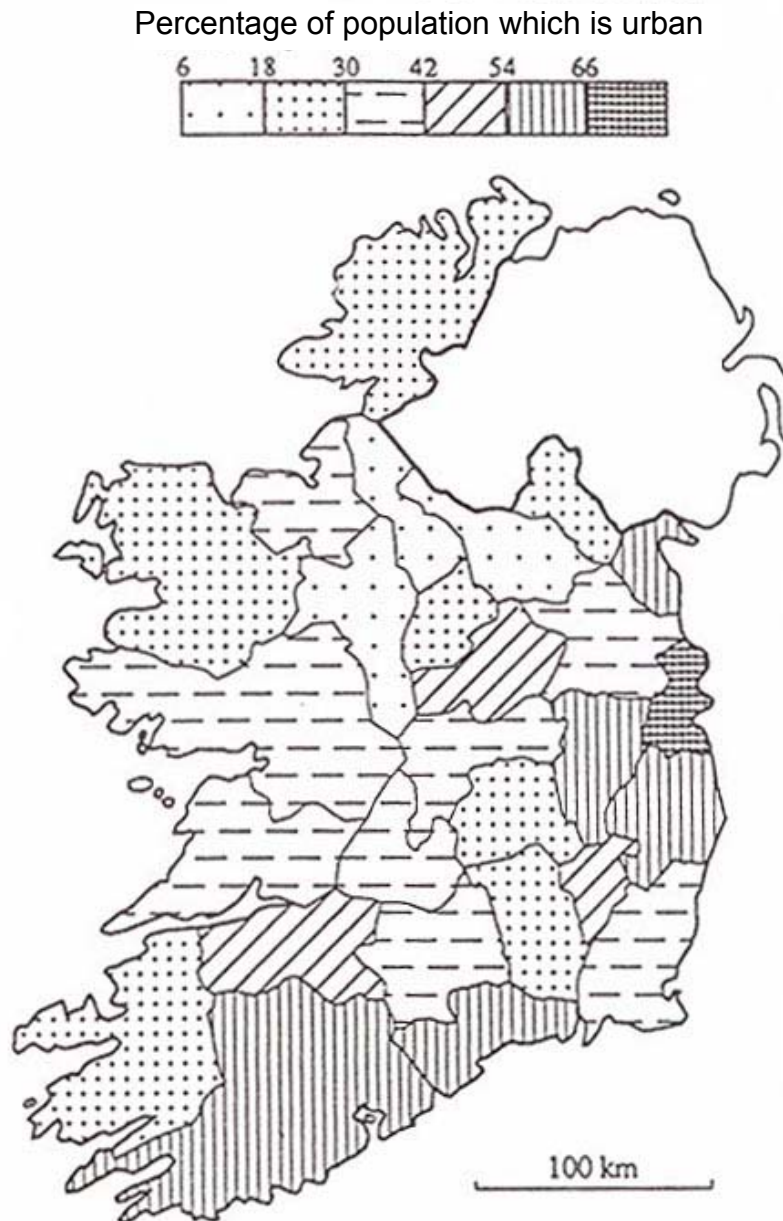
Nigeria



17. URBAN GEOGRAPHY

The map shows the percentage of population that is urban in the Republic of Ireland.

Tick (✓) the correct box.



- (i) The least urbanized part of Ireland is in the east
- (ii) Connacht is more urbanized than Munster.
- (iii) County Dublin is the most urbanized county.
- (iv) County Cork is less urbanized than County Galway

18. ORDNANCE SURVEY

Match the following grid squares with the land-uses shown in the table below.

Grid Squares: **S 72 78**; **S 71 74**; **S 66 74**.

Land-use	Grid Square
Coniferous forest	
Sewage Treatment Plant	
Factory	

19. ORDNANCE SURVEY

Using **both** the map and the photograph of Carlow town, give the number of the road crossing the river in the photograph.

Number of the road _____

20. ORDNANCE SURVEY

Measure the length of the river Barrow from the bridge at Carlow town **S 716 767** south to where it is joined by the Fushoge river at **S 698 737**

Distance is _____ kilometers.

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