

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, 2019

GEOGRAPHY – ORDINARY LEVEL

SECTION 1 – FOLDER (60 marks)

FRIDAY 7 JUNE – MORNING 9:30 – 11:30

NOTE: SECTION 2 OF THIS PAPER IS SUPPLIED SEPARATELY

SECTION 1 (60 marks)

Answer **ALL** questions.
You have a choice within four questions.
Be sure to return this folder with your answer book.
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1. UNDERGROUND KARST LANDFORMS

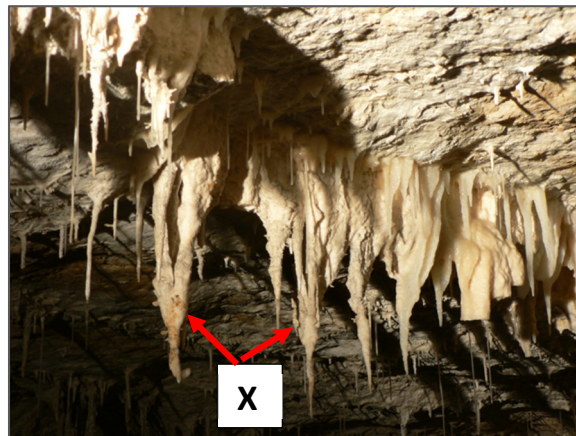
The photograph opposite shows an underground cavern.

The features labelled **X** are called:

Swallow holes ☐

Pillars ☐

Stalactites ☐



Amended from www.wikimedia.org

Tick (✓) the correct box.

2. VOLCANOES

The photograph opposite shows the eruption of the Kilauea Volcano, Hawaii in 2018.

The feature labelled **X** is called a:

Lava flow ☐

Crater ☐

Geyser ☐



Amended from www.usgs.gov

Tick (✓) the correct box.

3. ROCKS



Amended from www.quarriesandbeyond.org and www.photos.hgtv.com

The rock shown in the photograph above is a metamorphic rock.
It is formed when rocks are put under great heat and pressure.

This rock is called:

Basalt ☐

Sandstone ☐

Marble ☐

Tick (✓) the correct box.

4. CLIMATE AND NATURAL VEGETATION

Look at the photograph opposite.

This type of natural vegetation is found in:

Boreal regions ☐

Tundra regions ☐

Hot deserts ☐

Tick (✓) the correct box.



Amended from www.amwua.org

5. THE EARTH'S CRUST

Mountains, like those in the diagram opposite, are formed when plates collide.

This process is called:

Erosion

☐

Folding

☐

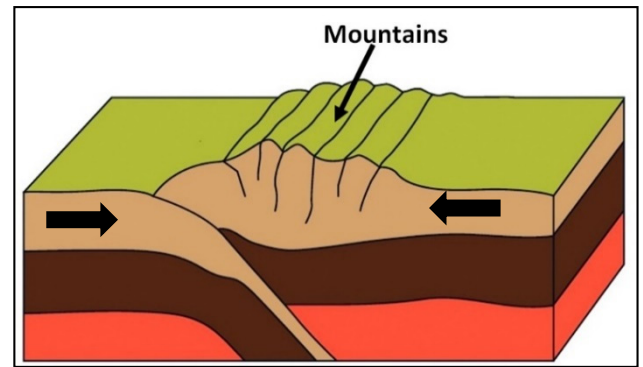
Mass movement

☐

Carbonation

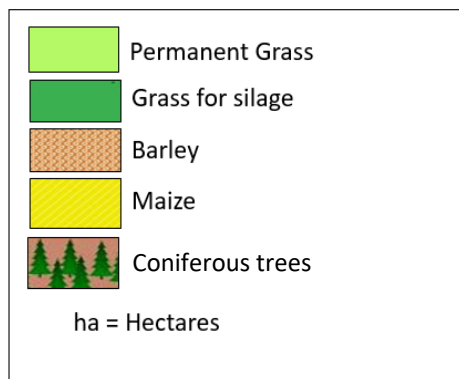
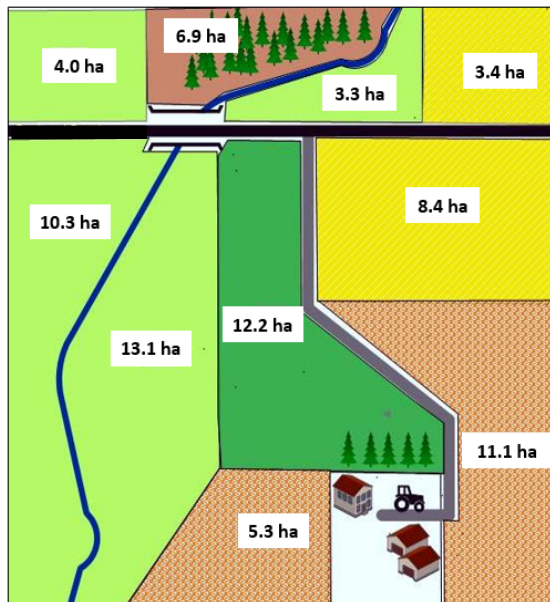
☐

Tick (✓) the correct box.



Amended from www.cpb-ca-c1.wpmucdn.co

6. MIXED FARM



Created using ©ConceptDraw Pro

The map above shows production on a mixed farm in Ireland.

The total amount of land given to **MAIZE** is:

5.0 hectares

☐

8.4 hectares

☐

11.8 hectares

☐

16.4 hectares

☐

Tick (✓) the correct box.

7. RIVERS

The place where a river starts is called the:

- | | |
|------------|--------------------------|
| Oxbow lake | <input type="checkbox"/> |
| Source | <input type="checkbox"/> |
| Meander | <input type="checkbox"/> |
| Basin | <input type="checkbox"/> |

Tick (✓) the correct box.

8. ENVIRONMENT

The burning of fossil fuels can add to the build-up of gases in the earth's atmosphere.

These gases are called:

- | | |
|------------------|--------------------------|
| Oxygen | <input type="checkbox"/> |
| Greenhouse gases | <input type="checkbox"/> |
| Aerosols | <input type="checkbox"/> |

Tick (✓) the correct box.

9. SOIL

What is the name of the material found in soil which is formed when leaves, grass, etc. decay?

- | | |
|---------|--------------------------|
| Bedrock | <input type="checkbox"/> |
| Horizon | <input type="checkbox"/> |
| Humus | <input type="checkbox"/> |

Tick (✓) the correct box.

10. ANSWER EITHER 10A OR 10B

10A. COASTS AND HUMANS

Look at the photograph opposite.
The low walls or fences, labelled **X**, that extend out at right angles to the sea to trap sand are called:

Tombolos ☐

Spits ☐

Groynes ☐



Amended from www.stacey.peak-media.co.uk

Tick (✓) the correct box.

OR

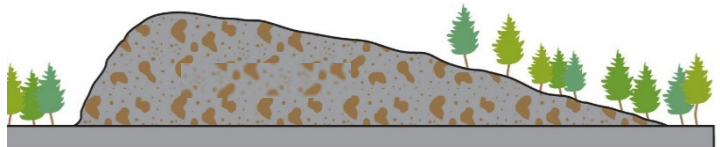
10B. GLACIATION

The feature shown in the diagram opposite is called:

Scree ☐

An esker ☐

A drumlin ☐



Amended from www.openvirtualworlds.org

Tick (✓) the correct box.

11. ANSWER EITHER 11A OR 11B

11A. COMMUNICATION LINKS

If you travelled from Wexford to Ballina, in which direction would you be travelling?

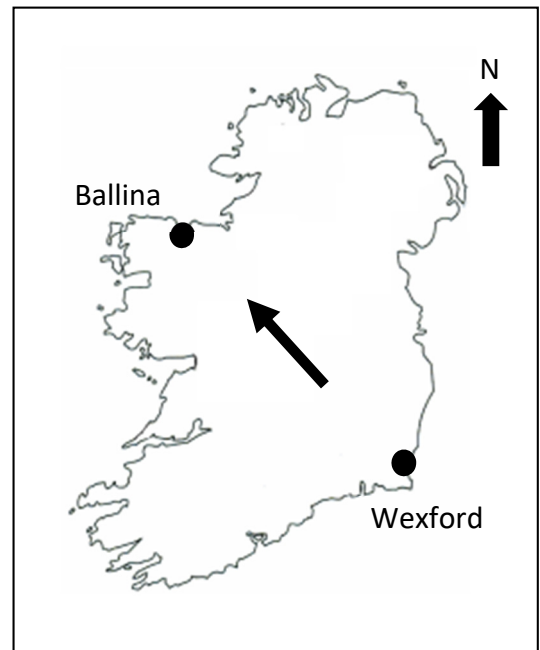
From South-West to North-West ☐

From South-East to North-West ☐

From North-West to South-West ☐

From North-West to South-East ☐

Tick (✓) the correct box.



OR

11B. DISTANCE ON THE ORDNANCE SURVEY MAP

Look at the Ordnance Survey map supplied with this paper.

The distance in kilometres along the **R 501** road from its junction with the **N 62** at **S 106 714** to the cross-roads at **S 067 694** is:

4.3 kilometres ☐

8.6 kilometres ☐

2.7 kilometres ☐

Tick (✓) the correct box.

12. ANSWER EITHER 12A OR 12B

12A. MEASURING WEATHER

The weather instrument shown in the photograph opposite is used to show:

Pressure ☐

Temperature ☐

Wind direction ☐



Amended from www.metoffice.gov.uk

Tick (✓) the correct box.

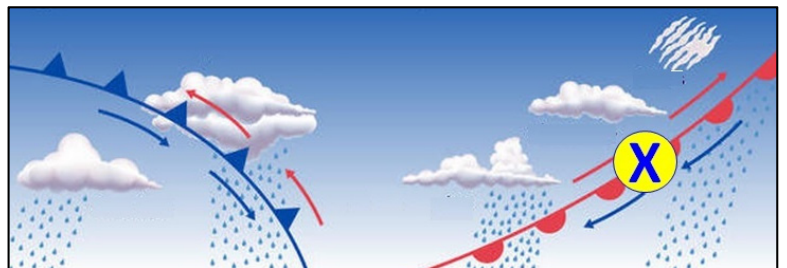
OR

12B. WEATHER

The type of front labelled **X** in the diagram opposite is a:

Warm front ☐

Cold front ☐



Amended from www.metoffice.gov.uk

Tick (✓) the correct box.

13. ANSWER EITHER 13A OR 13B

13A. SETTLEMENT FUNCTIONS

The main function of the settlement shown in this diagram is:

Religious ☐

Residential ☐

as a port ☐

Tick (✓) the correct box.



Created using © ConceptDraw Pro

OR

13B. ECONOMIC INEQUALITY

Which of the following is a Non-Governmental Organisation (NGO)?

United Nations ☐

Concern ☐

European Union ☐

Tick (✓) the correct box.



Amended from www.wikipedia.org

14. WEATHER STATISTICS

Cork Airport: Mean Monthly Temperature and Total Monthly Rainfall January to August, 2018								
Month	Jan	Feb	Mar	Apr	May	June	July	Aug
Mean Temperature (°C)	6.2	4.1	4.4	8.4	11.8	15.8	17.4	15.2
Total Rainfall (mm)	157	49	165	181	83	10	40	53

Amended from www.met.ie

Examine the data above for Cork Airport and answer each of the following questions.

- (i) Which month has the lowest temperature? _____
- (ii) Which month has the highest temperature? _____
- (iii) Which month has the most rainfall? _____

15. AERIAL PHOTOGRAPH

Look at the aerial photograph of Templemore supplied with this paper.

The extract taken from the aerial photograph shown opposite is located in the:

- Left background ☐
- Left foreground ☐
- Right foreground ☐



Tick (✓) the correct box.

16. URBAN STUDIES

The type of housing shown in the photograph opposite is:

Apartment

☐

Semi-detached

☐

Georgian

☐

Amended from www.geograph.ie

Tick (✓) the correct box.

17. ECONOMIC ACTIVITIES

Farmers



Miners



Quarry workers



Amended from www.agriland.ie, www.sem-construction.com & www.hitachicm.eu

Farmers, miners and quarry workers are all examples of people who work in:

Secondary economic activities

☐

Tertiary economic activities

☐

Primary economic activities

☐

Tick (✓) the correct box.

18. GRID REFERENCES

Look at the Ordnance Survey map supplied with this paper.

The historical feature at **S 087 697** is a:

Burial ground ☐

Moated site ☐

Barrow ☐

Castle ☐

Tick (✓) the correct box.

19. GRID REFERENCES

Look at the Ordnance Survey map supplied with this paper.

The grid reference for the townland of Coolgort is:

S 15 75 ☐

S 04 69 ☐

S 07 70 ☐

S 10 73 ☐

Tick (✓) the correct box.

20. POPULATION DENSITY

Circle the correct answer in the statement below.

Kolkata (Calcutta), Hong Kong and Sao Paulo are examples of places with **very high / very low** population density.



Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2019

GEOGRAPHY – ORDINARY LEVEL

SECTION 2 (90 marks)

FRIDAY 7 JUNE – MORNING 9:30 – 11:30

SECTION 1 of this paper is in a separate folder, where spaces are provided for your answers.

PLEASE REMEMBER TO RETURN YOUR COMPLETED **SECTION 1 FOLDER** WITH YOUR ANSWER BOOK.

SECTION 2 (90 marks)

Answer any **THREE** questions.

All questions carry equal marks.

Question 1. ORDNANCE SURVEY MAP

Study the **ORDNANCE SURVEY MAP** supplied with this paper.

1A. Draw a sketch map of the area shown on the Ordnance Survey map.

On your sketch map **show** and **label** each of the following:

- The built-up area of Templemore
- A golf course
- The N62 road
- A railway line
- An upland area with coniferous trees.

(12)

1B. Look again at the Ordnance Survey map

- (i) Using evidence from the Ordnance Survey map, explain **TWO** reasons why the town of Templemore developed at this location.
- (ii) Name any **TWO** services found in the built-up area of Templemore **AND** give the grid reference of **ONE** of them.

(10)

1C. It has been proposed to build an Outdoor Adventure Centre in the area of Kilkip West at **S 08 75**.

- (i) Using evidence from the Ordnance Survey map, describe **ONE** advantage of building the Outdoor Adventure Centre at this location.
- (ii) Using evidence from the Ordnance Survey map, describe **ONE** disadvantage of building the Outdoor Adventure Centre at this location.

(8)

Question 2. AERIAL PHOTOGRAPH

Study the **AERIAL PHOTOGRAPH** of Templemore supplied with this paper.

NOTE: Remember, this is an oblique aerial photograph. Therefore, you must use the **correct terms**, such as left background, right foreground, etc.

2A. Draw a sketch map of the area shown on the aerial photograph.

On your sketch map **show** and **label** each of the following:

- **TWO** connecting streets
- A sports ground with a running track
- A field with animals grazing
- A church
- A lake.

(12)

2B. Tipperary County Council wish to build a new Leisure Centre with a swimming pool in Templemore.

- (i) Using the correct term (left foreground etc.), give a suitable location on the aerial photograph for the new Leisure Centre with a swimming pool.
- (ii) Explain **TWO** reasons why you chose this site.

(8)

2C. (i) Using the correct terms, name **AND** give the locations of **TWO** land-uses in the town of Templemore **AND** describe each land-use.

- (ii) What time of the year do you think the aerial photograph was taken?

Give **ONE** piece of evidence from the aerial photograph to support your answer.

(10)

Question 3. SHAPING THE EARTH'S SURFACE

3A. Coastal Deposition or Glacial Deposition

- (i) Name **ONE** feature formed by coastal deposition **OR** glacial deposition.
- (ii) Explain, with the aid of a diagram, how this feature was formed.


(10)

3B. Mass Movement

- (i) Name any **TWO** types of mass movement **AND** state whether each is an example of **slow** or **fast** mass movement.
- (ii) Choose **ONE** type of mass movement and explain how it occurs.
- (iii) Describe **ONE** problem that may be caused by mass movement.

(10)

3C. Earthquakes and Humans



22 September 2017

Rescue workers are searching for survivors, days after a devastating earthquake hit Mexico City killing more than 273 people.

The 7.1 magnitude earthquake brought down dozens of buildings in Mexico City including a school, leaving many children dead.

Amended from www.bbc.com/news

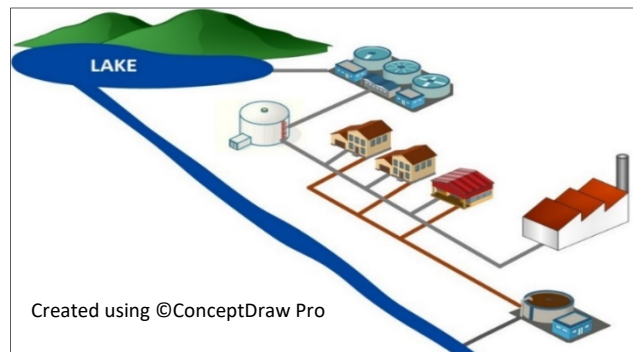
Examine the information above.

- (i) What was the magnitude of the earthquake that hit Mexico City?
- (ii) Describe **ONE** type of aid needed when an earthquake hits a large city like Mexico City.
- (iii) Explain what causes an earthquake.

(10)

Question 4. ECONOMIC ACTIVITIES

4A. Importance of Water



Water is a basic natural resource, needed for human and animal life.

(i) With the aid of the diagram above, describe a local water supply network that you have studied.

(ii) Explain **TWO** ways that people can conserve water.

(10)

4B. Factories

(i) Name **ONE** factory that you have studied.

(ii) Name **ONE** input and **ONE** output associated with this factory.

(iii) Describe any **ONE** process that takes place in this factory.

(iv) Explain **ONE** factor that you might consider if you were setting up a new factory.

(8)

4C. Conflicts of Interest

Read the newspaper account below and answer the following questions.

DISAGREEMENT ABOUT PROPOSED FACTORY

As we reported last week, ES Cement Products has applied for planning permission to build a factory at the edge of the town to make concrete blocks.

Many people think this is a good idea. However, parents of the children at the local school and the nearby park said they are against the plan.

(i) Explain **TWO** reasons why some people might be in favour of giving planning permission to build the factory.

(ii) Explain **TWO** reasons why some people might be against the factory being located here.

(12)

Question 5. GEOGRAPHICAL MIX

Answer **ANY THREE** of the questions **5A, 5B, 5C, 5D**.

5A. Urban Studies



Amended from www.irishtimes.com

Examine the photograph above which shows part of a Central Business District.

- (i) Describe what normally happens in a Central Business District.
- (ii) Explain **ONE** reason why land values are highest in the Central Business District.
- (iii) Name **and** explain **ONE** problem that can be found in cities.

(10)

5B. Tourism

Sporting and recreational



Amended from www.goracing.ie

Areas of natural beauty



Amended from www.barnacles.ie

Beaches and coastlines



Amended from www.visitlouth.ie

Cities



Amended from www.crofestival.ga

- (i) Name **ONE** Irish tourist region and explain **TWO** reasons why tourists are attracted to this region.
- (ii) Describe **ONE** way in which tourism can have a negative or unwelcome impact on a region.

(10)

5C. Census Information

Census Information for Co. Mayo and Co. Dublin

Co. Mayo		Co. Dublin
130,507	Total Population	1,347,359
54,967	Population under 35 years of age	665,679
€125,771	Average house price	€410,890
43.9%	Percentage of people who speak Irish	33.3%

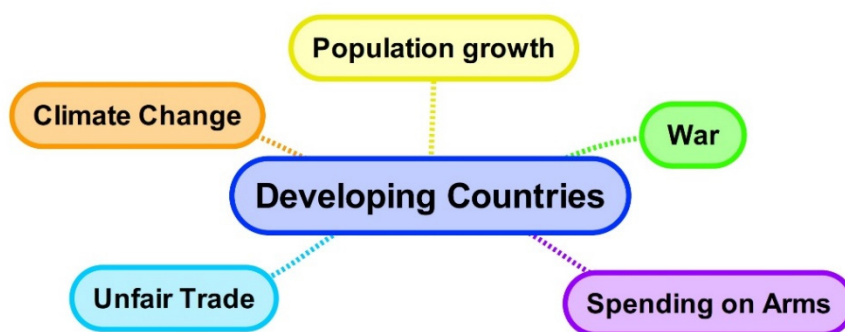
Amended from CSO

Examine the census information for Co. Mayo and Co. Dublin above and answer each of the questions below.

- How many people are under 35 years of age in Co. Mayo?
- Which county has the higher percentage of people who speak Irish?
- Calculate the difference in the total population between Co. Dublin and Co. Mayo.
- Explain **ONE** reason why people could be more likely to buy a house in Co. Mayo rather than Co. Dublin.

(10)

5D. Unequal World



- Name **ONE** Developing Country that you have studied.
- Explain how any **THREE** of the factors shown above have slowed the development of this country.

(10)

There is no examination material on this page

Junior Certificate 2019 – Ordinary Level, Section 2

Geography

Friday 7 June

Morning 9:30 – 11:30