

WARNING

You must return this paper with your answer book. Otherwise you will lose marks.

Write your Examination Number here:



Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2019

GEOGRAPHY – HIGHER LEVEL

SECTION 1 – FOLDER (60 marks)

FRIDAY 7 JUNE – MORNING 9:30 – 11:30

Folder Marking Grid (For examiner's use only)				
Questions		Mark	Examiner	Advising Examiner
	@	3		
	@	2		
	@	1		
	@	0		
Total Mark				

NOTE: SECTION 2 OF THIS PAPER IS SUPPLIED SEPARATELY

SECTION 1 (60 marks)

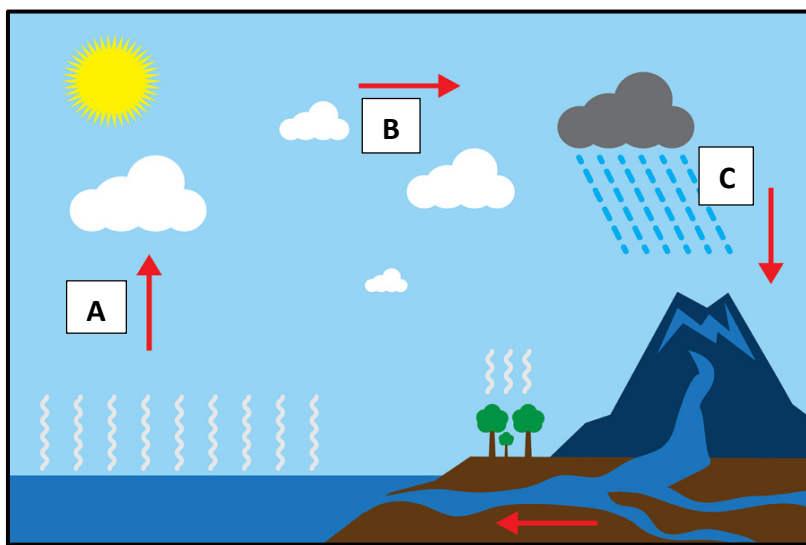
Answer **ALL** questions.

You have a choice within three questions.

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1. WATER CYCLE



Amended from www.printablediagram.com

Examine the diagram of the water cycle above.

Match each of the letters **A**, **B** and **C** with the stage in the water cycle that best matches it in the table below.

Stage in the Water Cycle	Letter
Condensation	
Precipitation	
Evaporation	

2. WIND

Circle the correct answer in each of the following statements.

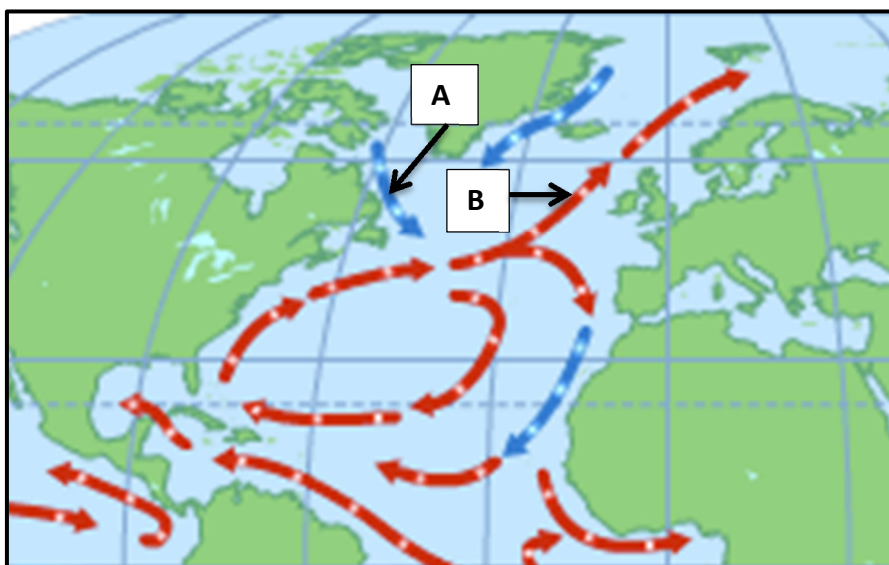
- (i) Winds that blow from the equator towards the poles are **warm winds** / **cold winds**.
- (ii) Stronger winds are shown when isobars are **close together** / **far apart**.
- (iii) Ireland's prevailing wind is from the **north-east** / **south-west**.

3. PRIMARY ECONOMIC ACTIVITIES

Indicate which **three** of the workers listed in the table below are employed in primary economic activities, by circling the correct answers.

Brewer	Hairdresser	Teacher
Farmer	Forestry worker	Baker
Dentist	Miner	Mechanic

4. OCEAN CURRENTS



Amended from www.serc.carleton.edu

Examine the map above and circle the correct answer in each of the following statements.

- (i) The current labelled **A** is called the **Labrador Current / Canary Current**.
- (ii) The current labelled **B** is called the **North Equatorial / North Atlantic Drift**.
- (iii) The current labelled **A** is a **warm / cold** ocean current.

5. IMPACT OF HUMAN ACTIVITY

Circle the correct answer in each of the following statements.

- (i) The clearing of forests is called **afforestation** / **deforestation**.
- (ii) The clearing of forests **increases** / **decreases** the amount of soil erosion which could occur.
- (iii) The amount of carbon dioxide in the atmosphere **increases** / **decreases** due to clearing of large areas of trees.

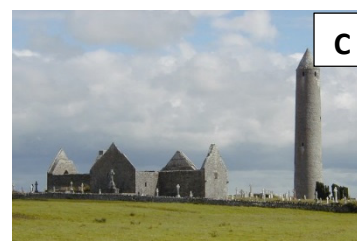
6. HISTORIC SETTLEMENT



Amended from www.tripadvisor.ie



Amended from www.reddit.com

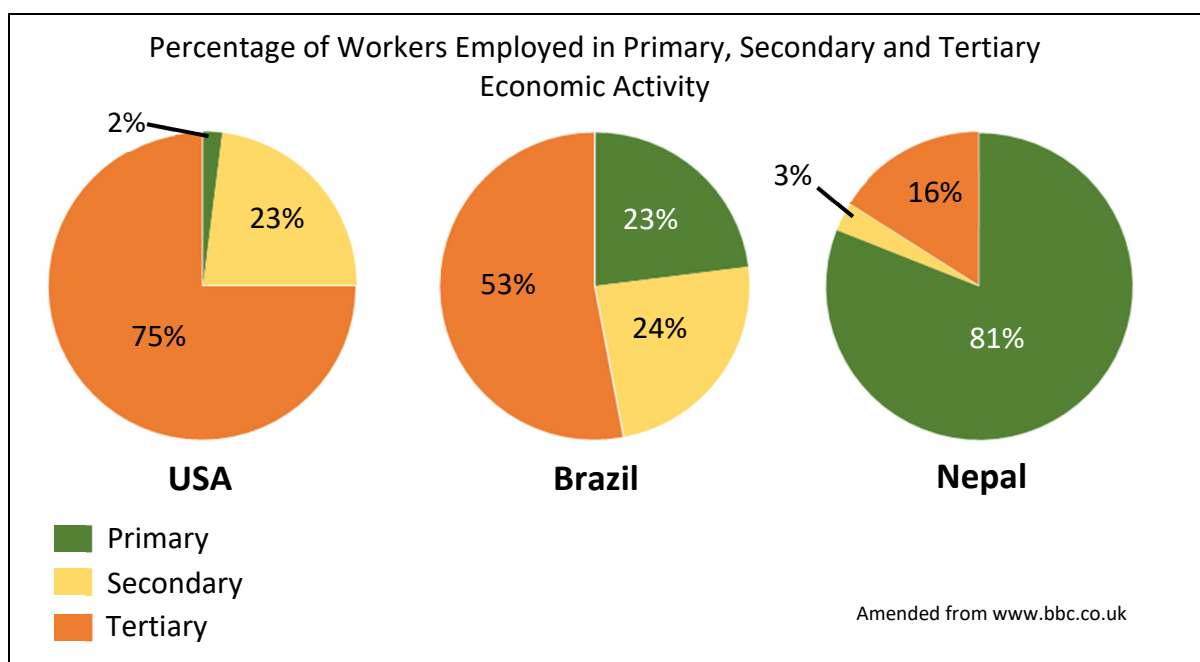


Amended from www.irishantiquities.com

The photographs **A**, **B** and **C** above show examples of historic settlements. Match each of the photographs **A**, **B** and **C** with the historic period most associated with it in the table below.

Period of Historic Settlement	Letter
Early Christian Period	
Norman Period	
Celtic Period	

7. EMPLOYMENT STATISTICS AND DEVELOPMENT



Examine the pie charts above and answer the following question.

Indicate which **three** of the following statements are correct by ticking (✓) the correct box.

1. Brazil is the least developed of the three countries.
2. Nepal has the lowest percentage of workers employed in secondary economic activity.
3. Brazil has just over half of its workforce employed in tertiary economic activity.
4. Nepal is the most developed of the three countries.
5. The USA has the lowest percentage of workers employed in primary economic activity.

1, 2, 3 ☐

1, 4, 5 ☐

2, 3, 5 ☐

2, 4, 5 ☐

ANSWER EITHER 8A OR 8B

8A. MANUFACTURING INDUSTRY

Sometimes an industry remains at its original location even though the reasons which led to it locating there no longer exist. This is known as:

Industrial decline ☐

Industrial inertia ☐

Industrial relocation ☐

Industrial revolution ☐

Tick (✓) the correct box.

OR

8B. FACTORS AFFECTING CLIMATE

One factor which influences the temperature of a place on the Earth's surface is its position relative to the Equator.

This distance north or south of the Equator is called:

Altitude ☐

Latitude ☐

Aspect ☐

Relief ☐

Tick (✓) the correct box.

ANSWER EITHER 9A OR 9B

9A. RIVERS

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

Column X		Column Y		X	Y
A	Abrasion	1	Chemicals in water dissolving rocks.	A	
B	Hydraulic Action	2	Stones hitting off each other while being carried by the river.	B	4
C	Solution	3	The river's load hitting against the bed and the banks of the river.	C	
D	Attrition	4	The force of moving water.	D	

OR

9B. MIGRATION

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

Column X		Column Y		X	Y
A	Asylum seeker	1	A person who migrates into a country.	A	2
B	Internal migrant	2	An immigrant who applies for permission to be accepted as a refugee.	B	
C	Immigrant	3	A person who migrates out of a country.	C	
D	Emigrant	4	A person who moves from one place to another place within the same country.	D	

ANSWER EITHER 10A OR 10B

10A. LAND-USE AND LAND VALUES

Circle the correct option in each of the following statements.

- (i) The Central Business District is located in the suburbs of a city.

True / False

- (ii) Land values increase towards the city centre.

True / False

- (iii) The density and height of buildings decrease moving away from the city centre.

True / False

OR

10B. ACID RAIN



Amended from www.nationalgeographic.com

Circle the correct option in each of the following statements.

- (i) Sulphur dioxide is one of the causes of acid rain.

True / False

- (ii) Acid rain only affects the region where it is produced.

True / False

- (iii) One solution to acid rain is to use non-renewable energy sources. **True / False**

11. IRISH BOGS

Complete each of the following sentences by using the correct term from the table below.

Raised	Ditcher	Grader
Miller	Blanket	

- (i) _____ bogs are mainly found in the midlands.
- (ii) The machine used to drain bogs is called a _____.
- (iii) A _____ is used to scrape the peat from the surface of a bog.

12. FARMING

Which **one** of the following lists contains only examples of processes that take place on a farm?

- | | |
|--------------------------------------|--------------------------|
| Milking, slurry, tractor. | ☐ |
| Harvesting, ploughing, sowing seeds. | ☐ |
| Land, feeding animals, barley. | ☐ |
| Wheat, labour, animal manure. | ☐ |

Tick (✓) the correct box.

13. SETTLEMENT



Amended from commons.wikimedia.org



Amended from www.property.ie



Amended from www.irishtimes.com

Examine the photographs above.

In the space provided, name each of the types of housing **A**, **B** and **C** shown above.

A. _____

B. _____

C. _____

14. ROCKS

Circle the correct answer in each of the following statements.

- (i) Basalt and granite are examples of **igneous rocks** / **metamorphic rocks**.
- (ii) Basalt rock forms when lava cools **quickly** / **slowly**.
- (iii) Granite rock has **small** / **large** crystals.

15. THE RIVER RHINE

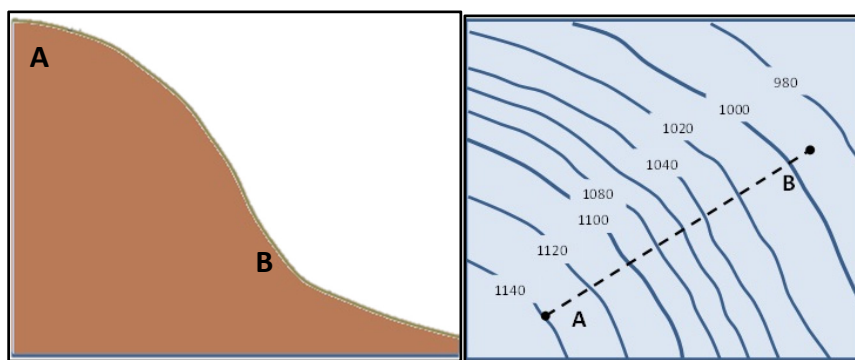
Indicate which **one** of the following statements is correct by ticking the correct box.

The River Rhine rises in Switzerland and enters the sea in the Netherlands. ☐

The River Rhine rises in Switzerland and enters the sea in France. ☐

The River Rhine rises in Germany and enters the sea in the Netherlands. ☐

16. SLOPE



Amended from www.easymapwork.blogspot.com

The slope **A – B** is:

A concave slope ☐

A convex slope ☐

A stepped slope ☐

An even slope ☐

Tick (✓) the correct box.

17. POPULATION

Population Statistics

	Birth Rate (per thousand)	Death Rate (per thousand)	Natural Change (per thousand)
Country A	8.6	11.7	-3.1
Country B	36.6	10.4	X
Country C	14.1	6.6	7.5

Examine the table above showing birth rates, death rates and natural change in population in countries **A**, **B** and **C**. Answer each of the following questions.

(i) What is the birth rate (per thousand) in Country **A**? _____

(ii) Which country has the lowest death rate? _____

(iii) Calculate **X**, the natural change in population (per thousand) in Country **B**.

18. ORDNANCE SURVEY MAP

Examine the Ordnance Survey map supplied with this paper.

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

Column X	
A	S 155 713
B	S 071 725
C	S 120 707
D	S 057 706

Column Y	
1	Crossroads
2	Railway station
3	Spot height
4	Ringfort

X	Y
A	
B	4
C	
D	

19. AERIAL PHOTOGRAPH

Examine the aerial photograph supplied with this paper.

Circle the correct option in each of the following statements.

- (i) The main land-use in the left background is **commercial** / **residential**.
- (ii) There is a car park in the **centre middleground** / **left foreground**.
- (iii) In the right background of the photograph there is a **church** / **running track**.

20. ORDNANCE SURVEY MAP

What is the area east of easting 14?

9 km² ☐

18 km² ☐

24 km² ☐

27 km² ☐

Tick (✓) the correct box.



Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2019

GEOGRAPHY – HIGHER 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. THE EARTH'S SURFACE

1A. Plate Tectonics

- (i) State whether each of the following features is formed as a result of plates colliding or plates separating:
- (a) Mid-ocean ridge
 - (b) Volcano
 - (c) Fold mountain
- (ii) Explain, with the aid of a labelled diagram, how any **one** of the features listed in part (i) above was formed.
- (12)

1B. Rivers

Name **one** feature formed by river deposition and explain, with the aid of a labelled diagram, how it was formed.

(10)

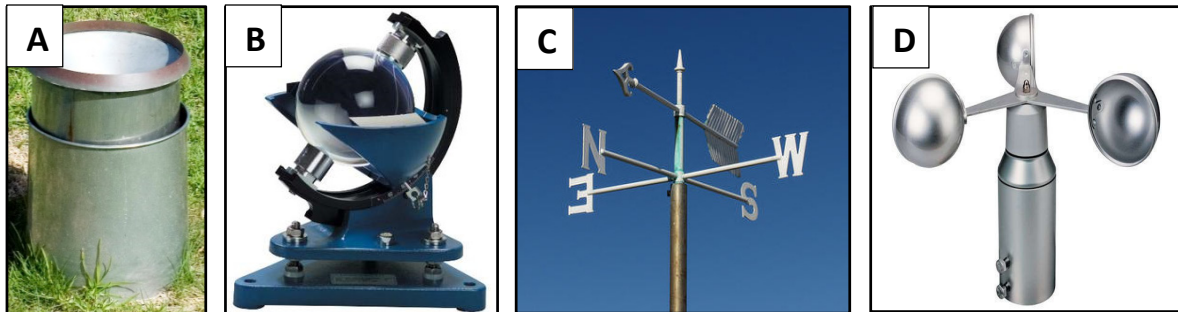
1C. Rivers and Human Activity

- (i) Explain **one** way that rivers may be of economic use to people.
- (ii) Explain **one** way that people pollute rivers.

(8)

Question 2. CLIMATE AND WEATHER

2A. Weather Instruments



Amended from: www.google.com; metcheck.co.uk; indiamart.com

- (i) Name each of the weather instruments labelled **A**, **B**, **C** and **D** above.
- (ii) Choose any **two** of the instruments shown above and describe how each of them is used to record weather.

(10)

2B. Rainfall

Describe, with the aid of a labelled diagram, how **frontal rainfall** occurs.

(8)

2C. Climate Type

- (i) Name **one** climate type that you have studied.
- (ii) Describe and explain the temperature **and** precipitation characteristics of the climate you named in part (i) above.
- (iii) Describe **one** way that the natural vegetation has adapted to this climate.

(12)

Question 3. GEOGRAPHICAL MIX

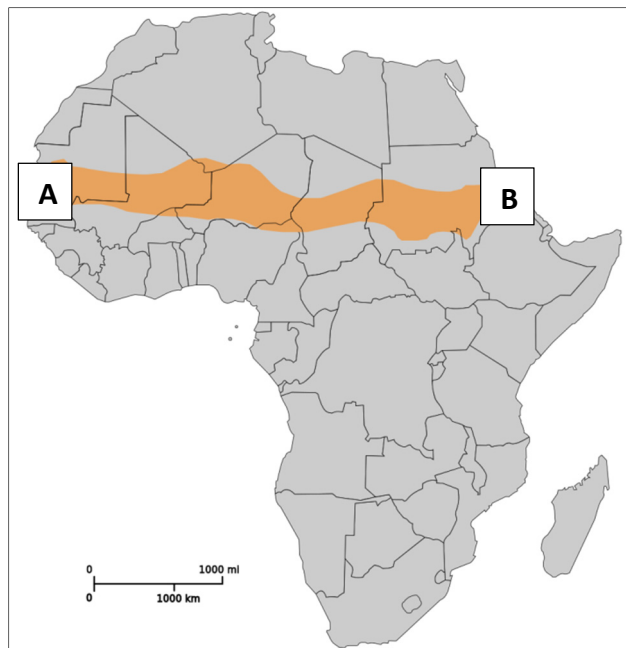
Answer **ANY THREE** of the questions **3A, 3B, 3C, 3D**.

3A. Population Density

- (i) Explain what is meant by the term *population density*.
- (ii) Name **one** example of a region that you have studied that has a low population density.
- (iii) Explain **two** effects of low population density on a region.

(10)

3B. Desertification



Amended from www.wikipedia.org

- (i) Name the area shaded orange marked **A** to **B** on the map above.
- (ii) Explain **one** human cause of desertification.
- (iii) Describe **two** ways to limit the spread of deserts in a region.

(10)

3C. URBAN GEOGRAPHY

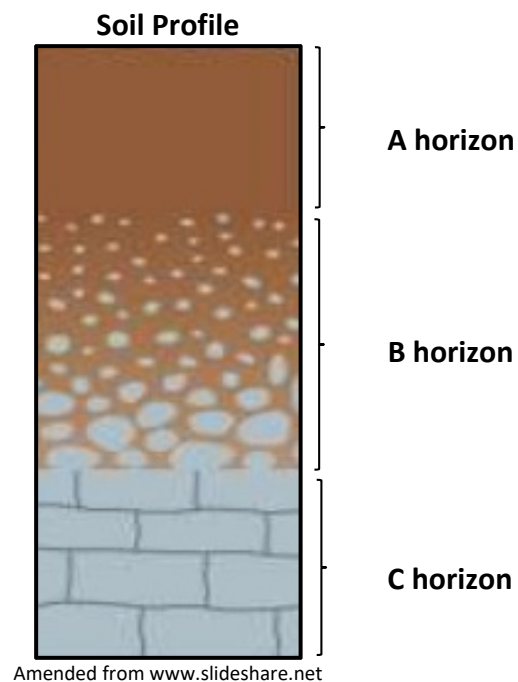
Cities have different functional zones including:

- The Central Business District
- Residential
- Industrial
- Shopping
- Open space.

Choose any **three** of the functional zones named above and for **each** one explain why it is located where it is, in a city that you have studied.

(10)

3D. Soil



- (i) Describe and explain the formation of the soil profile shown above.
- (ii) Name Ireland's most common soil type.

(10)

Question 4. ECONOMIC ACTIVITIES

4A. Ordnance Survey Map and Secondary Economic Activity

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

- (i) Using a six-figure grid reference, identify a suitable location for a new factory in the area shown on the Ordnance Survey map.
- (ii) Explain **three** reasons why this would be a suitable location, using evidence from the Ordnance Survey map to support each reason.

(10)

4B. Irrigation

- (i) State what is meant by the term *irrigation*.
- (ii) Describe **one** positive effect and **one** negative effect of any irrigation scheme that you have studied.

(10)

4C. Tourism

Climate data for the Costa del Sol (Spain)

Month	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
Temperature (°C)	12	13	14	16	19	22	25	26	23	19	15	13
Rainfall (mm)	83	75	59	40	23	13	2	5	15	57	115	98
Daily hours of sunshine	5	7	8	9	8	10	11	11	8	7	6	5

Amended from www.holidayweather.com

Study the table above and answer each of the following questions.

- (i) What is the annual temperature range in the Costa del Sol?
- (ii) Calculate the average rainfall for the three months of February, March and April.
- (iii) Explain **two** reasons why June, July and August are attractive months for tourists to visit areas such as the Costa Del Sol.

(10)

Question 5. ORDNANCE SURVEY MAP AND AERIAL PHOTOGRAPH

5A. Examine the **AERIAL PHOTOGRAPH** supplied with this paper.

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

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

- A church
- A car park
- A sports field
- Two connecting streets.

(10)

5B. Examine the **ORDNANCE SURVEY MAP** supplied with this paper.

Explain **two** reasons why there is an absence of settlement north of northing 73 and west of easting 08. Use evidence from the map to support each reason.

(8)

5C. Examine the **ORDNANCE SURVEY MAP** supplied with this paper.

Explain **three** reasons why tourists might be attracted to the area shown on the Ordnance Survey map using evidence from the map to support each reason.

(12)

There is no examination material on this page

Junior Certificate 2019 – Higher Level, Section 2

Geography

Friday 7 June

Morning 9:30 – 11:30