

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, 2017

GEOGRAPHY – HIGHER LEVEL

SECTION 1 – FOLDER (60 marks)

FRIDAY 9 JUNE – MORNING 9:30 – 11:30

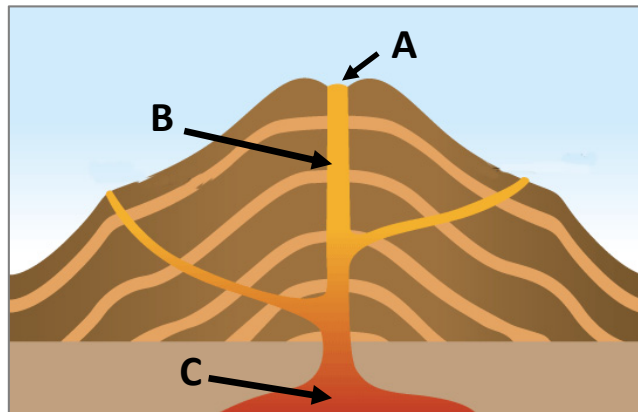
Folder Marking Grid				
Questions		Mark	Examiner	Advising Examiner
	@	3		
	@	2		
	@	1		
	@	0		
Total Mark				

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. VOLCANOES



Amended from www.bbc.co.uk

Examine the diagram of a volcano above.

Name each of the features of the volcano labelled **A**, **B** and **C**.

A. _____

B. _____

C. _____

2. EARTHQUAKES

Circle the correct answer in each of the following statements.

- (i) An earthquake starts at the **epicentre** / **focus**.
- (ii) The San Andreas Fault is located in **North America** / **South America**.
- (iii) The magnitude of an earthquake is measured using **convection currents** / **the Richter scale**.

3. MASS MOVEMENT



Amended from www.geograp.org.uk



Amended from www.monasset.com



Amended from www.ticotimes.net



Amended from www.ukgeohazards.info

Match each of the photographs **A**, **B**, **C** and **D** above with the type of mass movement that best matches it in the table below. One match has been completed for you.

Type of Mass Movement	Letter
Mudflow	D
Landslide	
Bog burst	
Soil creep	

4. WEATHERING



Amended from www.summitpost.org

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

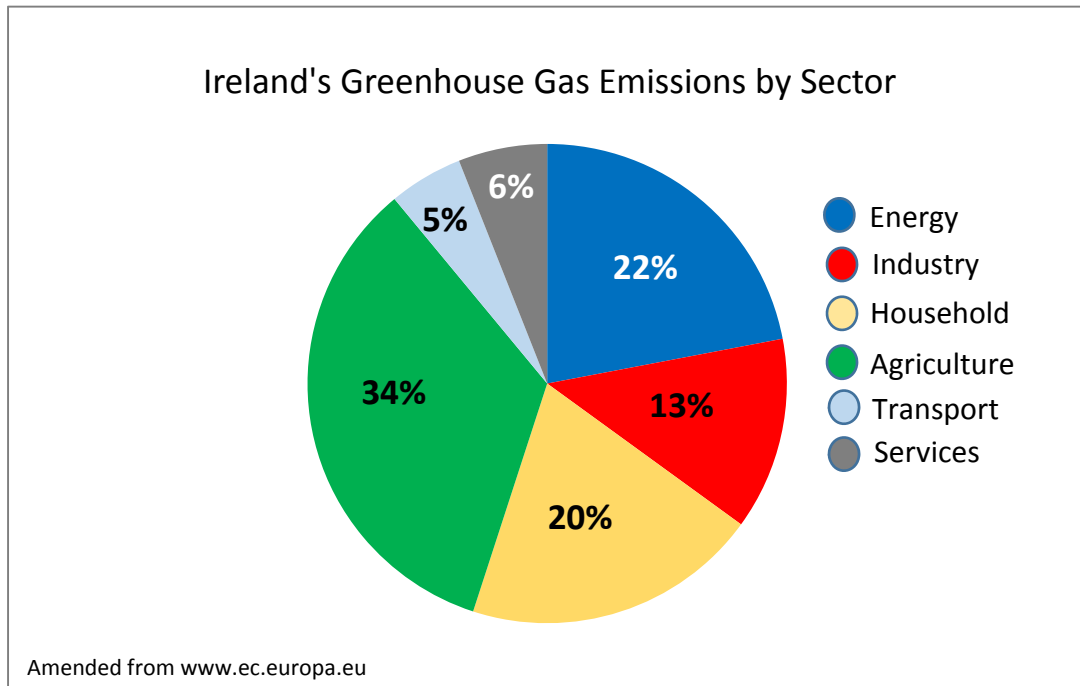
- (i) The landscape shown in the photograph is a **scree slope / limestone pavement**.
- (ii) The landscape shown in the photograph occurs as a result of **freeze-thaw action / carbonation**.
- (iii) **Chemical weathering / mechanical weathering** is most associated with this landscape.

5. ROCKS

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	Sandstone	1	Wicklow Mountains, Co Wicklow	A	
B	Marble	2	Connemara, Co Galway	B	
C	Granite	3	MacGillycuddy's Reeks, Co Kerry	C	
D	Quartzite	4	Croagh Patrick, Co Mayo	D	4

6. GREENHOUSE GAS EMISSIONS



Examine the pie chart above showing Ireland's greenhouse gas emissions by sector.

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

1. Industry accounts for the greatest amount of greenhouse gas emissions.
2. Energy and agriculture combined account for more than half of greenhouse gas emissions.
3. Transport accounts for 5% of greenhouse gas emissions.
4. Greenhouse gas emissions from industry and household combined is greater than from agriculture.
5. Greenhouse gas emissions from services is greater than from transport.

1, 2, 3

☐

1, 4, 5

☐

2, 3, 5

☐

2, 4, 5

☐

ANSWER EITHER 7A OR 7B

7A. GLACIATION



Circle the correct answer in each of the following statements.

- (i) The feature in the photograph is a **corrie (cirque)** / **drumlin**.
- (ii) The feature in the photograph is a feature of **glacial deposition** / **glacial erosion**.
- (iii) It was formed by the process(es) of **solution** / **plucking and abrasion**.

OR

7B. COASTS



Circle the correct answer in each of the following statements.

- (i) The feature labelled **X** in the photograph is a **sand spit** / **tombolo**.
- (ii) The feature labelled **X** is a feature of **coastal erosion** / **coastal deposition**.
- (iii) It was formed by the process of **longshore drift** / **hydraulic action**.

ANSWER EITHER 8A OR 8B**8A. WEATHER INSTRUMENTS**

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	Anemometer	1	Instrument used to measure atmospheric pressure.	A	
B	Campbell-Stokes recorder	2	Instrument used to shelter weather equipment.	B	
C	Barometer	3	Instrument used to measure wind speed.	C	1
D	Stevenson screen	4	Instrument used to record sunshine.	D	

OR

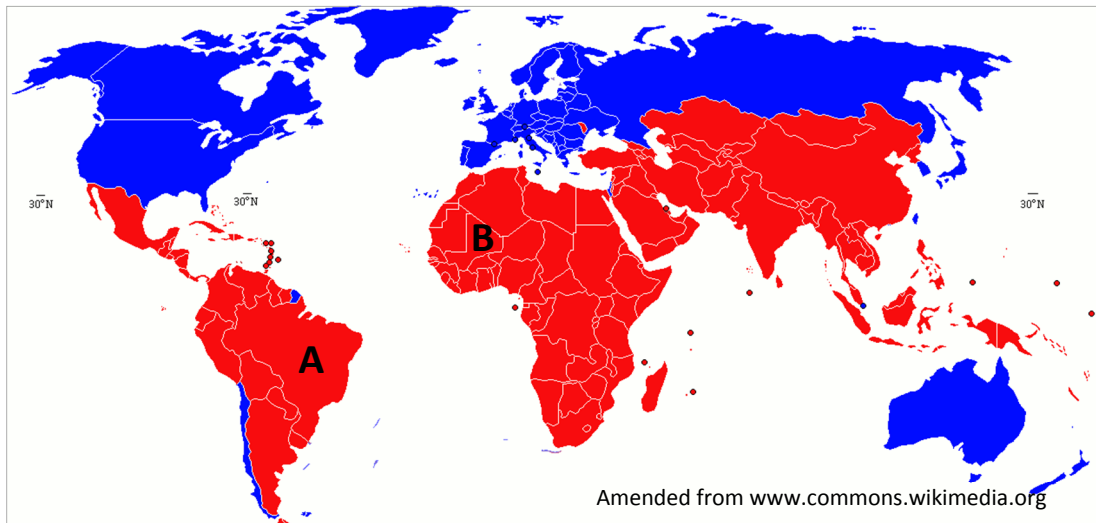
8B. MIGRATION

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	Immigrant	1	Good employment opportunities.	A	
B	Emigrant	2	A person who migrates out of an area.	B	
C	Push factor	3	War and unrest.	C	3
D	Pull factor	4	A person who migrates into an area.	D	

ANSWER EITHER 9A OR 9B

9A. POPULATION



Examine the map of the world above and answer each of the following questions.

- (i) What is the name of the country labelled **A**? _____
- (ii) What is the name of the country labelled **B**? _____
- (iii) Is the child mortality rate high or low in Country **B**? _____

OR

9B. FARMING

Farming is a system with Inputs, Processes and Outputs.

In the box below, circle **three** Inputs on a farm.

Harvesting	Capital	Cheese
Labour	Ploughing	Tractor
Sowing	Wool	Milking

10. SETTLEMENT PATTERNS

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

1. Isolated farmhouses are part of a dispersed pattern of settlement.
2. A housing estate is an example of a linear pattern of settlement.
3. A dispersed pattern of settlement is common in towns and cities.
4. A nucleated settlement is also called a clustered settlement.
5. A linear pattern occurs when houses form a line along a road.

1, 2, 3 ☐

1, 4, 5 ☐

2, 3, 4 ☐

2, 4, 5 ☐

11. ECONOMIC ACTIVITIES



Amended from www.en.wikipedia.org, www.kyyba.com, www.esa.int

Examine the photographs above.

State whether each of the photographs **A**, **B** and **C** represent primary, secondary or tertiary economic activity.

A. _____

B. _____

C. _____

12. SHANTY TOWNS

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

1. A shanty town is an example of urban planning.
2. Birth rates are high in shanty towns.
3. Shanty towns in Calcutta are called bustees.
4. Poor sanitation and a lack of clean water are major problems in shanty towns.
5. Shanty towns are areas of low population densities.

1, 2, 3 ☐

1, 3, 5 ☐

2, 3, 4 ☐

2, 4, 5 ☐

13. CLOUDS



Amended from www.en.wikipedia.org

Circle the correct answer in each of the following statements.

- (i) The cloud type shown in the photograph is **cirrus** / **cumulus**.
- (ii) The cloud type shown in the photograph occurs at a **low** / **high** altitude.
- (iii) These clouds are associated with **fine weather** / **heavy showers**.

14. WEATHER MAPS

Lines on a weather map joining places of equal rainfall are called:

Isohels ☐

Isotherms ☐

Isotachs ☐

Isohyets ☐

Tick (✓) the correct box.

15. URBANISATION – BUILDING TYPES

In Dublin and other areas, large brick houses with wrought iron railings and rounded-arched doorways were built during which era?

Celtic ☐

Georgian ☐

Viking ☐

Norman ☐



Amended from mapio.net

Tick (✓) the correct box.

16. SETTLEMENT

The main function of an ecclesiastical settlement is:

Industrial ☐

Recreational ☐

Residential ☐

Religious ☐

Tick (✓) the correct box.

17. 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	W 305 704
B	W 295 668
C	W 337 663
D	W 320 655

Column Y	
1	Garda Station
2	Spot Height
3	Nature Reserve
4	Megalithic tomb

X	Y
A	
B	
C	2
D	

18. ORDNANCE SURVEY MAP

Examine the Ordnance Survey map supplied with this paper.

Indicate whether each of the following statements is true or false by circling the correct option in each case.

- (i) The N22 is a National Secondary Road. **True / False**
- (ii) The total area of the Ordnance Survey map is 120 km². **True / False**
- (iii) Dromkeen (W 31 69) is located to the north of Ballina (W 31 67). **True / False**

19. AERIAL PHOTOGRAPH

Examine the aerial photograph supplied with this paper.

The bridge can be found in the:

- | | |
|---------------------|--------------------------|
| Right background | ☐ |
| Centre foreground | ☐ |
| Right middleground | ☐ |
| Centre middleground | ☐ |

Tick (✓) the correct box.

20. AERIAL PHOTOGRAPH

Examine the aerial photograph supplied with this paper.

Circle the correct answer in each of the following statements.

- (i) The trees in the right foreground are mainly **deciduous** / **coniferous**.
- (ii) This photograph was most likely taken in **winter** / **summer**.
- (iii) The land-use in the left background is mainly **agricultural** / **industrial**.

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Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION, 2017

GEOGRAPHY – HIGHER LEVEL

SECTION 2 (90 marks)

FRIDAY JUNE 9 – 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. ECONOMIC ACTIVITIES

A. Tourism

1. Areas of Natural Beauty



2. Coastlines and Beaches



3. Recreational and Sporting



4. Cities



- (i) Choose **one** of the four tourist regions above and name a specific example in Ireland of this tourist region.
- (ii) Explain **one** reason why tourists are attracted to the tourist region in Ireland named by you in part (i) above.
- (iii) Describe **one** positive economic impact of tourism.
- (iv) Describe **one** negative impact of tourism on the environment.

(10)

B. Fishing

- (i) Explain **two** reasons for the over-exploitation of fish.
- (ii) Describe **two** measures that are used to prevent the over-exploitation of fish.

(10)

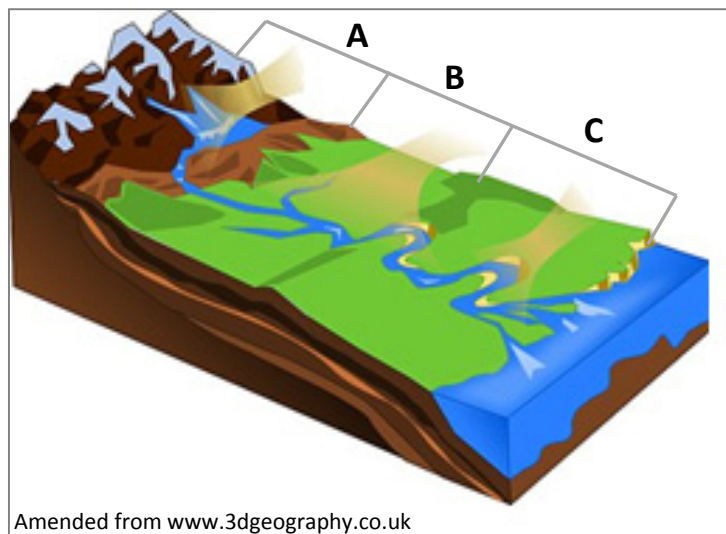
C. Industrial Location

Describe and explain **three** reasons why the location of Britain's iron and steel industry has changed over time.

(10)

Question 2. RIVERS AND HUMAN ACTIVITY

A. Rivers



The diagram above shows the three stages of a river.

- (i) Name each of the **three** stages **A**, **B** and **C**.
- (ii) Name **one** feature formed by river erosion and, with the aid of a labelled diagram, explain how it was formed.

(12)

B. Flooding

‘Flooding sometimes occurs along the course of a river.’

- (i) Explain **one** way in which flooding damages an area.
- (ii) Explain **one** way in which flooding can be of benefit to an area.

(8)

C. Human Interaction with the Landscape

- (i) Explain **two** advantages of hydroelectric power.
- (ii) Describe **two** objections which might be made to the development of a hydroelectric power station.

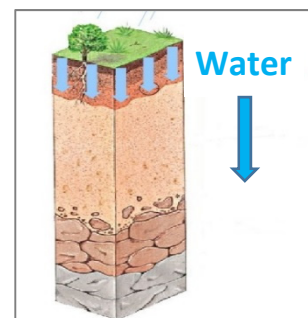
(10)

Question 3. GEOGRAPHICAL MIX

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

3A. Soil

- (i) What name is given to the process where nutrients are washed down through soil?
- (ii) Name any **two** Irish soil types.
- (iii) Describe and explain the formation of any **one** of the soil types named by you in part (ii) above.



Amended from www.pac-geography.com

(10)

3B. Unequal World

Top Six Recipient Countries of Ireland's Bilateral Aid in 2015

Recipient Country	€ (in millions)
Mozambique	37.0
Ethiopia	35.2
Tanzania	28.7
Uganda	23.3
Malawi	X
Zambia	17.5
Total (top 6 recipient countries)	161.7

Amended from www.irishaid.ie

Examine the table above which shows the top six recipient countries of Ireland's bilateral aid in 2015 and answer each of the following questions.

- (i) How much bilateral aid (€ millions) did Uganda receive?
- (ii) Calculate **X**, the amount of bilateral aid (€ millions) received by Malawi.
- (iii) State what is meant by the term *bilateral aid*.
- (iv) Explain **two** advantages of aid to countries in the developing world.

(10)

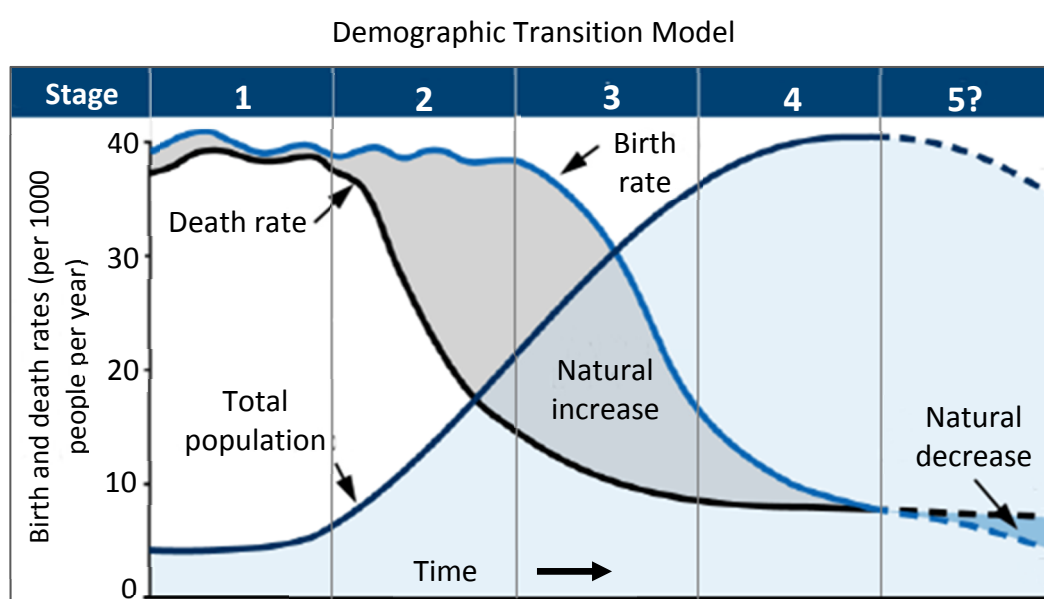
3C. Economic Development

Explain how any **two** of the following factors have slowed up economic development in a developing country that you have studied:

- Climate change
- Population growth
- Arms expenditure
- War.

(10)

3D. Population



Amended from www.adviservice.com.au

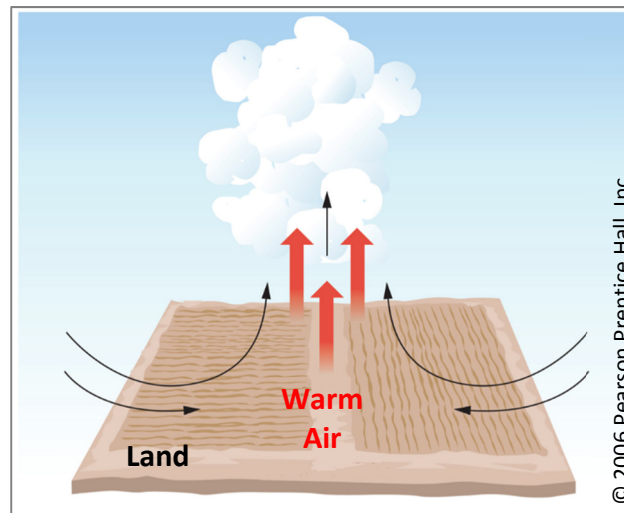
The Demographic Transition Model above shows population change over time.

- State **two** reasons why the death rate is fluctuating in Stage 1.
- Explain **one** reason why total population is increasing rapidly in Stage 2.
- Explain **one** reason why birth rates are declining in Stage 4.
- Name **one** example of a country in Stage 4 of the Demographic Transition Model.

(10)

Question 4. WEATHER AND CLIMATE

A. Rainfall



- (i) Name the type of rainfall associated with the diagram above.
- (ii) Describe and explain how this type of rainfall occurs.

(8)

B. Climate

Explain how any **three** of the following factors influence climate:

- Latitude
- Prevailing winds
- Distance from seas and oceans
- Altitude
- Relief.

(12)

C. Climate Type

- (i) Name one **hot** climate that you have studied.
- (ii) Describe and explain the temperature **and** precipitation characteristics of this hot climate.

(10)

Question 5. AERIAL PHOTOGRAPH AND ORDNANCE SURVEY MAP

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

Draw a sketch map of the aerial photograph.

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

- The river
- A church
- A recreational area
- An area of terraced housing.

(10)

B. Examine the **AERIAL PHOTOGRAPH** accompanying this paper.

It is proposed to build a hotel in the right foreground of the aerial photograph.

Explain **two** reasons why this would be a suitable location for a hotel.

(8)

C. Examine the **ORDNANCE SURVEY MAP** accompanying this paper.

‘The area shown on the Ordnance Survey map has a long history of settlement.’

Name, locate using six-figure grid references, and explain any **three** different examples of historic settlement evident on the map.

(12)

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