

**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, 2018

**GEOGRAPHY – HIGHER LEVEL**

**SECTION 1 – FOLDER (60 marks)**

**FRIDAY 8 JUNE – MORNING 9:30 – 11:30**

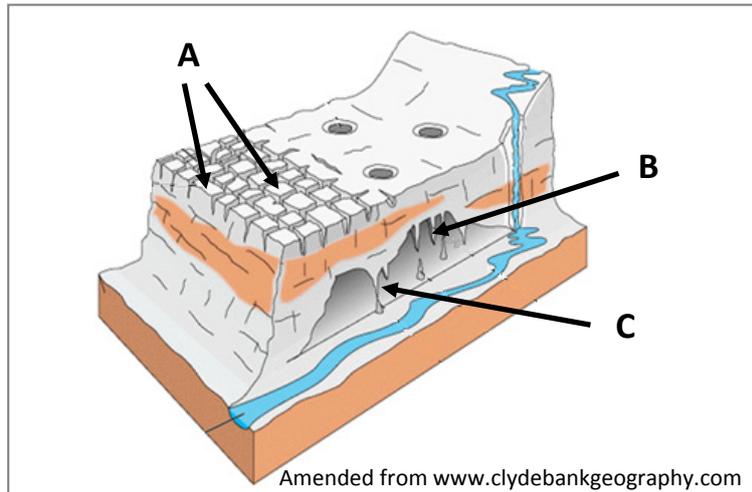
Section 1 Folder Marking Grid (for examiners use only)				
Questions		Mark	Examiner	Advising Examiner
	@	3		
	@	2		
	@	1		
	@	0		
Total Mark				

**NOTE: SECTION 2 OF THIS PAPER IS SUPPLIED SEPARATELY**

## SECTION 1 (60 marks)

Answer **ALL** questions.  
You have a choice within three questions.  
Be sure to return this folder with your answer book.  
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### 1. KARST LANDSCAPES



The diagram above shows features in a karst region.

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

**A.** \_\_\_\_\_

**B.** \_\_\_\_\_

**C.** \_\_\_\_\_

### 2. FOLD MOUNTAINS

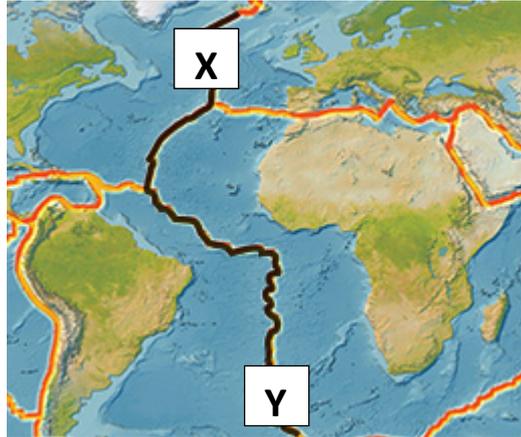
Circle the correct answer in each of the following statements.

(i) Fold mountains are formed when two plates **separate** / **collide**.

(ii) An example of Fold Mountains in South America are the **Andes** / **Himalayas**.

(iii) The mountains of Munster formed during the **Alpine foldings** / **Armorican foldings**.

### 3. PLATE MOVEMENT



Amended from [www.buzzle.com](http://www.buzzle.com)

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

- (i) The area indicated by the line XY on the map is called the **Pacific Ring of Fire / Mid-Atlantic Ridge.**
- (ii) Plates are **colliding / separating** in the area along the line XY.
- (iii) Plates move because of **convection currents / ocean currents.**

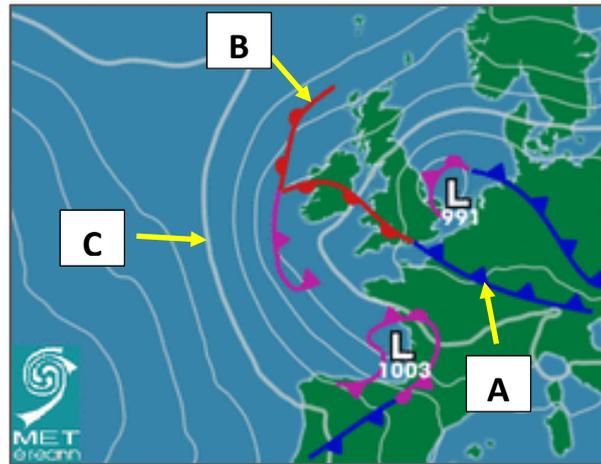
### 4. SECONDARY ECONOMIC ACTIVITY

Which **one** of the following lists contains only examples of people involved in secondary economic activity?

- Miner, tour guide, taxi driver, forestry worker.
- Singer, farmer, doctor, teacher.
- Baker, factory worker, brewer, cabinet maker.
- Hairdresser, dentist, nurse, bus driver.

Tick (✓) the correct box.

5. WEATHER CHART



Examine the weather chart above and complete each of the following sentences by inserting the correct term in each case.

- (i) The weather chart feature labelled **A** is called a \_\_\_\_\_.
- (ii) The weather chart feature labelled **B** is called a \_\_\_\_\_.
- (iii) The line labelled **C** is called an \_\_\_\_\_.

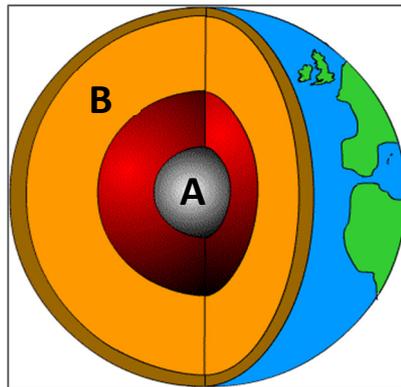
6. SOIL

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

Podzols	Horizons	Humus
Micro organisms	Hard pan	Brown earths

- (i) The different layers in a soil profile are called \_\_\_\_\_.
- (ii) Decayed plant litter in soils is called \_\_\_\_\_.
- (iii) \_\_\_\_\_ are Ireland's most common soil.

## 7. STRUCTURE OF THE EARTH



Amended from geo.rhul.ac.uk

Examine the diagram of the structure of the earth above.

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

Magma	Inner mantle	Lava
Continent	Tectonic plates	Inner core

- (i) The area labelled **A** is known as the \_\_\_\_\_.
- (ii) The material found at **B** is called \_\_\_\_\_.
- (iii) The earth's crust is divided into sections called \_\_\_\_\_.

**ANSWER EITHER 8A OR 8B**

**8A. POPULATION DENSITY**

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	Mali	1	A city with a high population density.	A	
B	Hong Kong	2	An urban area in a developing world city.	B	1
C	Shanty town	3	A country with a low population density.	C	
D	The Netherlands	4	A country with a high population density.	D	

**OR**

**8B. WEATHER**

Circle the correct answer in each of the following statements.

- (i) Humidity is measured using an instrument called a **hygrometer** / **an anemometer**.
- (ii) Lines on a map joining places of equal sunshine are called **isohyets** / **isohels**.
- (iii) Rainfall that occurs when a warm air mass and a cold air mass meet is called **relief rainfall** / **cyclonic (frontal) rainfall**.

**ANSWER EITHER 9A OR 9B**

**9A. POLDERS**

Polders refer to:

Farms in Ethiopia.

Land reclaimed from the sea.

Height above sea level.

Fertile areas in the desert.

Tick (✓) the correct box.

**OR**

**9B. URBANISATION**

A primate city is:

A city from where people travel to work.

An urban renewal strategy.

A city that has twice the population of the next largest city.

The spread of urban development into rural areas.

Tick (✓) the correct box.

**ANSWER EITHER 10A OR 10B**

**10A. RIVERS**



Amended from [www.stuckiniceland.com](http://www.stuckiniceland.com)

Circle the correct answer in each of the following statements.

- (i) The feature labelled **X** in the photograph above is called a **rapid** / **waterfall**.
- (ii) The feature labelled **X** is a feature of **river erosion** / **river deposition**.
- (iii) The feature labelled **X** is found in the **upper** / **lower** course of a river.

**OR**

**10B. RIVERS**

Complete each of the following sentences by inserting the correct term in each case.

- (i) The term given to an area drained by a river and its tributaries is known as the river  
\_\_\_\_\_.
- (ii) The term given to fertile material deposited by a river on a flood plain is  
\_\_\_\_\_.
- (iii) Pronounced bends along the middle course of rivers are known as  
\_\_\_\_\_.

**11. THE ENVIRONMENT**



Amended from www.reference.com

The photograph above illustrates the effect of:

- Carbonation
- Earthquakes
- Weathering
- Global warming

Tick (✓) the correct box.

**12. AID**

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

Emergency aid	Tied aid	Development aid
---------------	----------	-----------------

- (i) Aid given with conditions attached is known as \_\_\_\_\_.
- (ii) Training local teachers and nurses is an example of \_\_\_\_\_.
- (iii) Aid given in times of crisis is known as \_\_\_\_\_.

**13. DEVELOPED AND DEVELOPING COUNTRIES**

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

1. There is a high life expectancy in developing countries.
2. Developing countries experience rapid population growth.
3. Developed countries have high birth rates.
4. Death rates are generally low in developed countries.
5. Standards of living are generally high in developed countries.

1, 2, 3

1, 4, 5

2, 3, 4

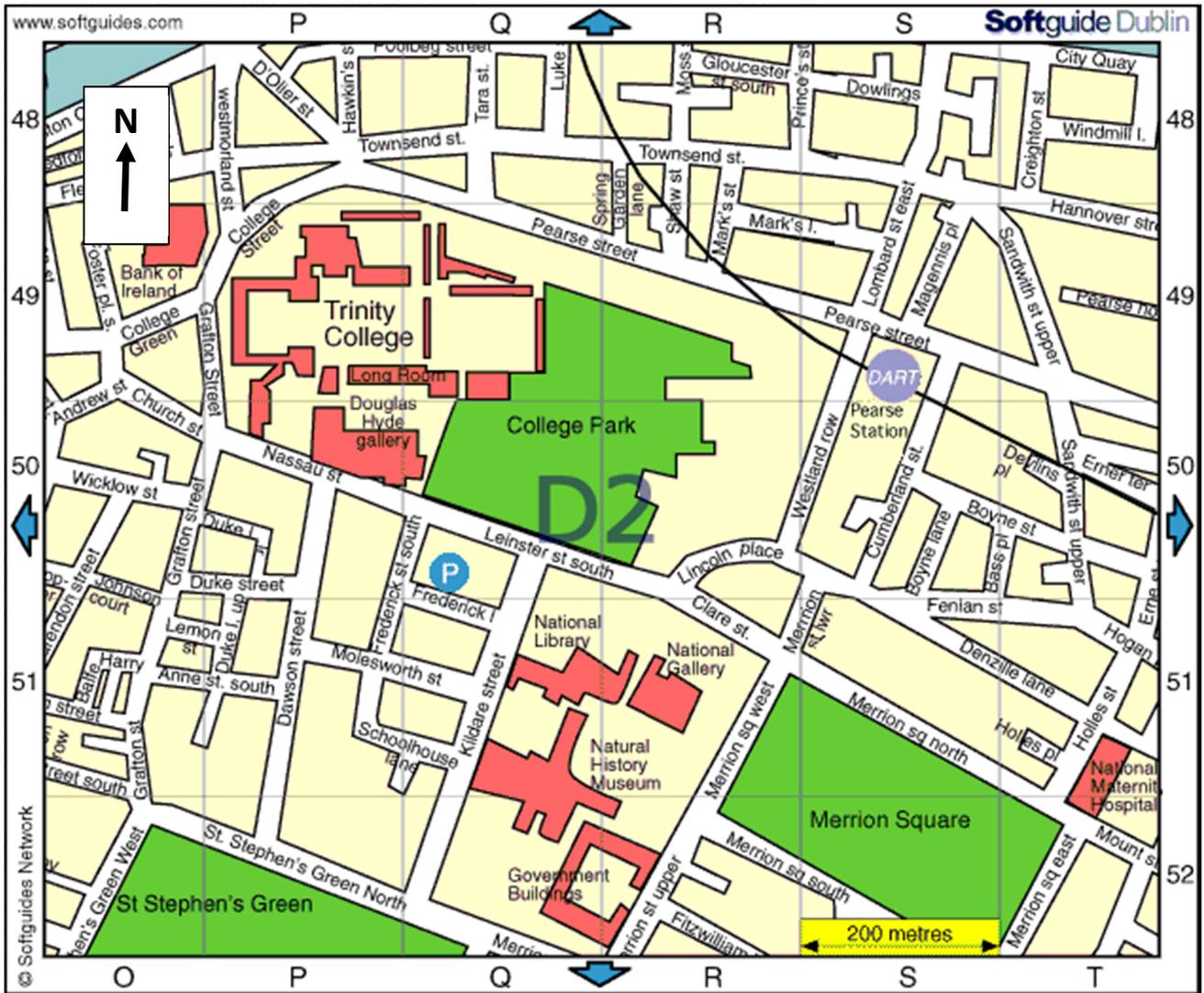
2, 4, 5

**14. PEAT BOGS**

Circle the correct answer in each of the following statements.

- (i) Peat bogs in the midlands of Ireland are **raised bogs** / **blanket bogs**.
- (ii) Peat is a **renewable** / **non-renewable** resource.
- (iii) In the past, hand tools called **sleans** / **harrows** were used to cut sods of turf on a bog.

15. STREET MAP



Examine the street map above which shows part of central Dublin.

What street would you arrive at having followed the directions below?

- Walk along Dawson Street (grid P51) in a northerly direction.
- Turn right onto Nassau St and continue walking.
- Take the second street on the right.

- Clare St
- Fredrick St South
- Molesworth St
- Kildare Street

Tick (✓) the correct box.

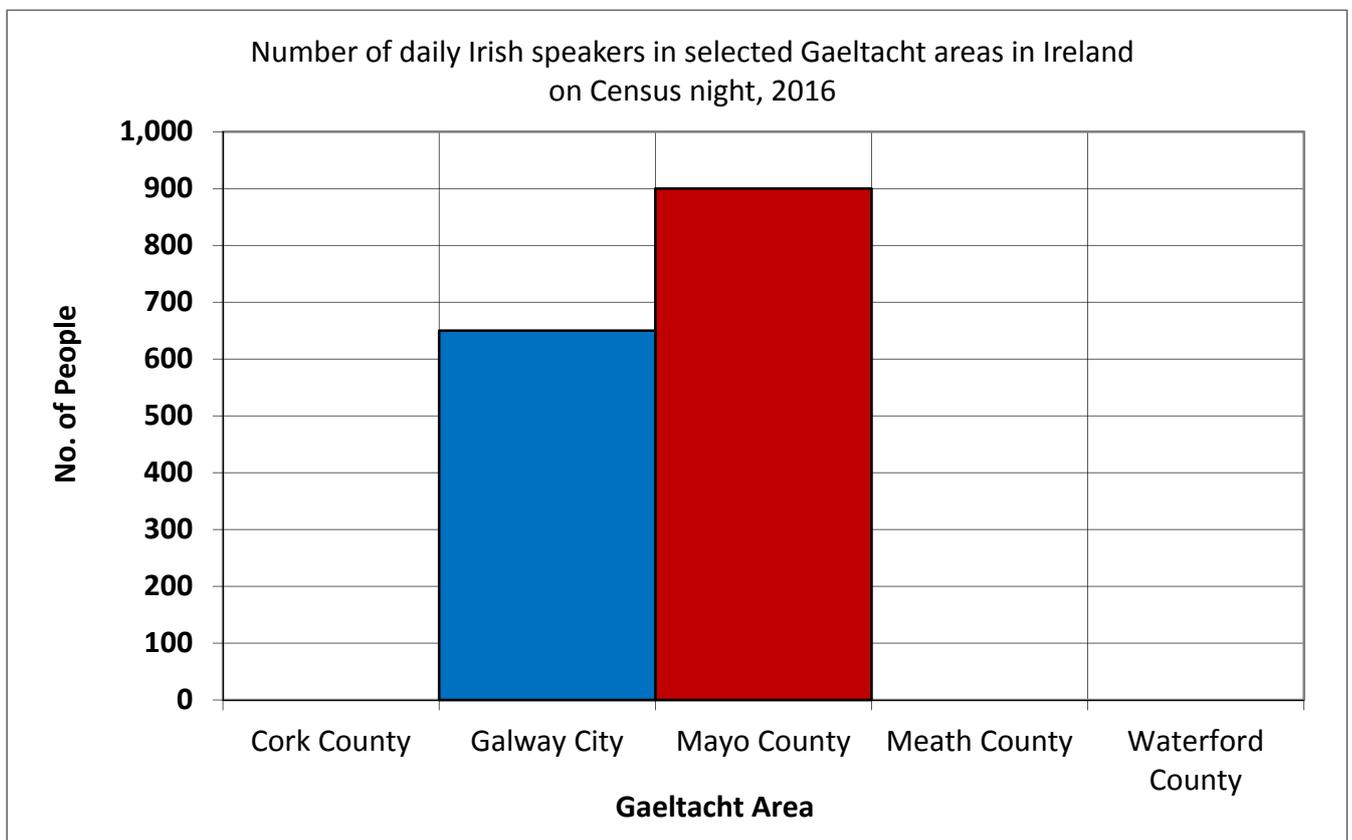
## 16. CENSUS GRAPH

The table below shows the approximate number of daily Irish speakers in selected Gaeltacht areas in Ireland on Census night in 2016.

Use the information in the table to complete the bar graph for Cork County, Meath County and Waterford County.

Gaeltacht Area	Cork County	Galway City	Mayo County	Meath County	Waterford County
No. of People	850	650	900	300	450

Amended from CSO



**17. ORDNANCE SURVEY MAP**

Examine the Ordnance Survey map and legend 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	G 667 423
B	G 674 421
C	G 749 352
D	G 703 418

Column Y	
1	Meander
2	Mixed woodland
3	Post Office
4	Castle

X	Y
A	
B	3
C	
D	

**18. AERIAL PHOTOGRAPH**

Examine the aerial photograph supplied with this paper.

Circle the correct answer in each of the following statements.

- (i) There is a weir on the river in the **centre background / left foreground**.
- (ii) There is a running track in the **left background / left middleground**.
- (iii) This is a **vertical / an oblique** aerial photograph.

**19. ORDNANCE SURVEY MAP**

Examine the Ordnance Survey map and legend supplied with this paper.

Circle the correct option in each of the following statements.

- (i) There is an Independent Holiday Hostel in Sligo. **True / False**
- (ii) The tourist office in Sligo has regular opening hours. **True / False**
- (iii) The highest point on the map is located at G 703 442. **True / False**

**20. ORDNANCE SURVEY MAP**

Examine the Ordnance Survey map and legend supplied with this paper.

What is the length of the railway line from G 678 350 to G 685 367?

1.3 km

3.5 km

2.0 km

Tick (✓) the correct box.



# **Coimisiún na Scrúduithe Stáit State Examinations Commission**

**JUNIOR CERTIFICATE EXAMINATION, 2018**

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**GEOGRAPHY – HIGHER LEVEL**

**SECTION 2 (90 marks)**

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**FRIDAY 8 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)

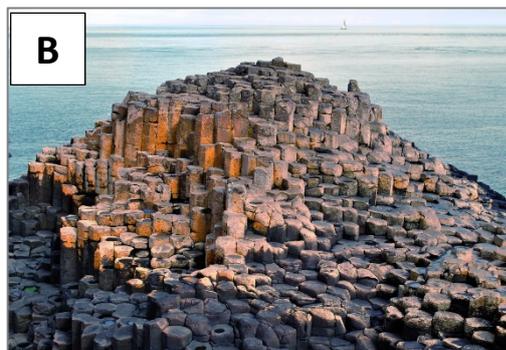
Answer any **THREE** questions.  
All questions carry equal marks.

### Question 1. THE EARTH'S SURFACE

#### 1A. Rocks



Amended from An Taisce



Amended from www.dochara.com

Examine the photographs above and answer each of the following questions.

- (i) State whether photograph **A** is an igneous, a sedimentary or a metamorphic rock.
- (ii) State whether photograph **B** is an igneous, a sedimentary or a metamorphic rock.
- (iii) Name an example of a sedimentary rock.
- (iv) Describe and explain how the sedimentary rock named by you in part (iii) above was formed.

(10)

#### 1B. Weathering

Explain, with the aid of a labelled diagram, how rocks are weathered by frost action.

(10)

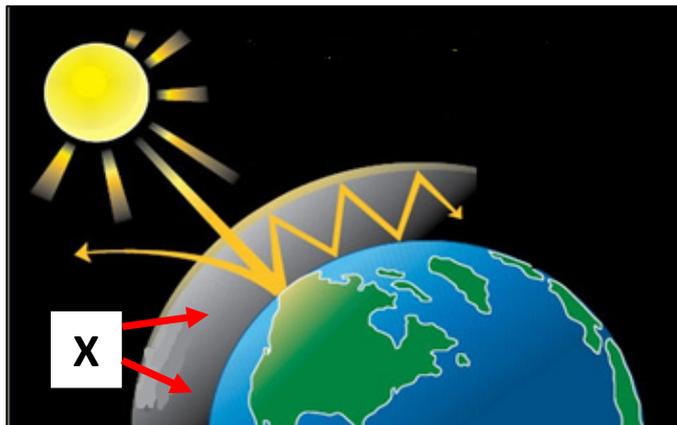
#### 1C. Mass Movement

- (i) Name **one** slow type of mass movement and describe **two** effects of this slow mass movement.
- (ii) Explain the impact of precipitation on mass movement.

(10)

## Question 2. THE EARTH'S SURFACE AND OUR PLANET

### 2A. Greenhouse Effect



Amended from [www.ecy.wa.gov](http://www.ecy.wa.gov)

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

- (i) What is the name given to the envelope of gases surrounding the earth (X)?
- (ii) Explain how the greenhouse effect occurs.
- (iii) Name **two** ways in which the greenhouse effect can be reduced.

(10)

### 2B. Volcanoes

- (i) Name **one** active volcano.
- (ii) Describe **one** positive effect and **one** negative effect of volcanoes.

(10)

### 2C. Glaciation and Coasts

Answer either (i) or (ii).

- (i) **Glaciation**

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

**OR**

- (ii) **Coasts**

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

(10)

**Question 3. GEOGRAPHICAL MIX**

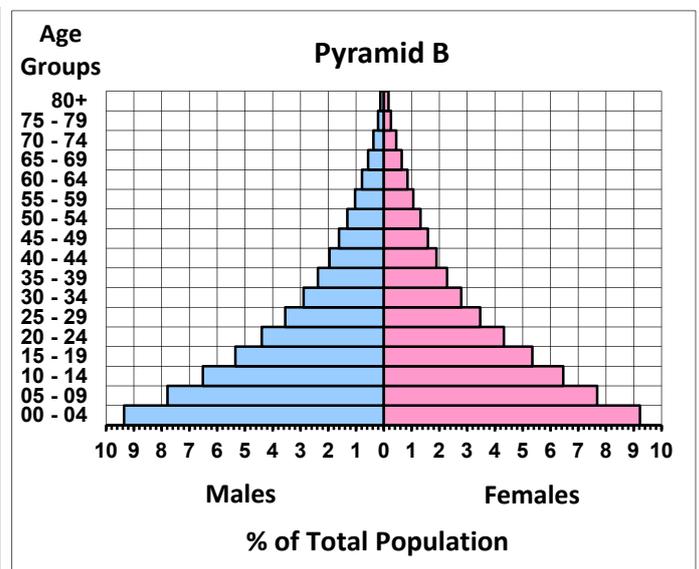
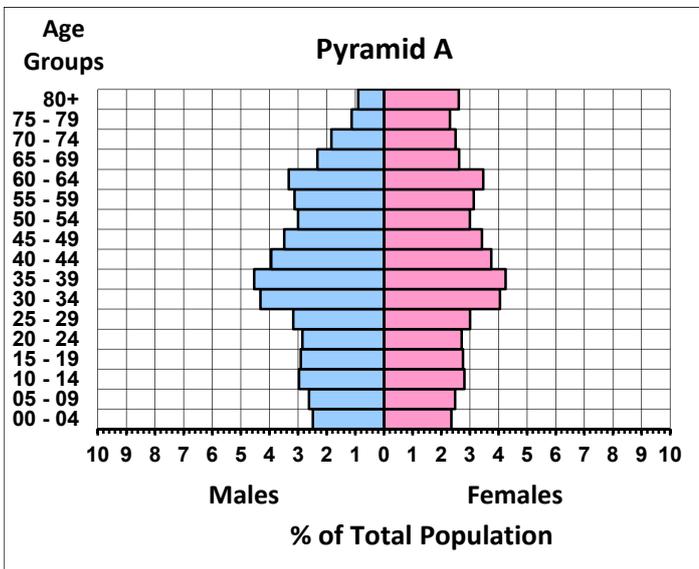
Answer **ANY THREE** of the questions **3A, 3B, 3C, 3D**.

**3A. Migration**

- (i) Name **one** example of organised migration that you have studied.
- (ii) Explain **two** reasons why this organised migration took place.
- (iii) Describe **two** effects of this organised migration on the area that people migrated to.

(10)

**3B. Population Pyramids**



Amended from US Census Bureau

Examine the population pyramids above and answer each of the following questions.

- (i) Name **one** country with a population structure similar to Pyramid **A**.
- (ii) Name **one** country with a population structure similar to Pyramid **B**.
- (iii) What percentage of the total population in Pyramid **A** are in the 50 to 54 year age group?
- (iv) Explain **one** reason why Pyramid **B** has a wider base than Pyramid **A**.
- (v) Explain **one** reason why Pyramid **A** is wider at the top than Pyramid **B**.

(10)

### 3C. Primary Economic Activity



Amended from [www.wikimediacommons.com](http://www.wikimediacommons.com)

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

- (i) Name the country labelled **X**.
- (ii) Name the source of energy most associated with country **X**.
- (iii) Describe **two** positive impacts that the exploitation of this source of energy has on country **X**.

(10)

### 3D. Industry

- (i) State what is meant by the term *footloose industry*.
- (ii) Name **one** example of a footloose industry.
- (iii) Secondary economic activities can give rise to local conflicts.  
Name and explain an example of such a conflict.

(10)

#### Question 4. URBAN GEOGRAPHY

##### 4A. Urbanisation in the Developing World

- (i) Name **one** city in the developing world that you have studied.
- (ii) Explain **two** problems associated with urban growth in this developing world city.

(10)

##### 4B. Urban Renewal

- (i) Explain what is meant by the term *urban renewal*.
- (ii) Explain **two** benefits of urban renewal to local people in an urban area.

(10)

##### 4C. Traffic Congestion



Amended from [www.journal.ie](http://www.journal.ie)

- (i) Describe **one** reason why traffic congestion occurs in Irish cities.
- (ii) Explain **two** different methods of reducing traffic congestion in Irish cities.

(10)

**Question 5. ORDNANCE SURVEY MAP AND AERIAL PHOTOGRAPH**

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

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 entire coastline
- The N15 road
- The Drumcliff River
- An area of coniferous plantation.

(10)

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

- (i) Name, and locate using six-figure grid references, **two** different rural settlement patterns evident on the Ordnance Survey map.
- (ii) Explain why each of the **two** settlement patterns named by you in part (i) above developed at the locations identified by you.

(10)

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

There are a number of different functions evident on the aerial photograph including:

- Residential
  - Recreational
  - Ecclesiastical
  - Industrial.
- (i) Choose **three** of the functions listed above and using accepted notation, locate an example of each of the **three** functions on the aerial photograph.
  - (ii) Explain why any **one** of the functions chosen by you in part (i) above developed at the location identified by you.
  - (iii) Explain **one** reason why there is limited development in the centre background of the aerial photograph.

(10)