

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 2016

GEOGRAPHY – HIGHER LEVEL

SECTION 1 – FOLDER (60 marks)

FRIDAY 10 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. ROCKS



Circle the correct answer in each of the following statements.

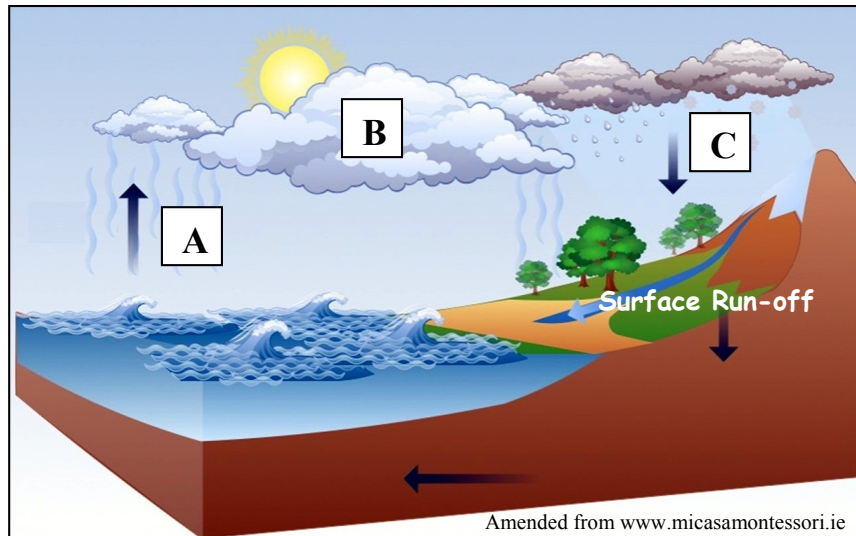
- (i) The rock type shown above is *marble* / *sandstone*.
- (ii) The rock type shown above is a *sedimentary rock* / *metamorphic rock*.
- (iii) It is found in *the Giant's Causeway* / *County Cork*.

2. RIVERS

Complete each of the following sentences.

- (i) Pronounced bends along the middle course of rivers are known as
_____.
- (ii) Fertile material deposited by rivers on their floodplains is known as
_____.
- (iii) _____ Electric Power is created by harnessing the energy of rivers.

3. WATER CYCLE



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
Precipitation	
Evaporation	
Condensation	

4. MASS MOVEMENT

Circle the correct answer in each of the following statements.

- (i) Soil creep is an example of a *fast* / *slow* type of mass movement.
- (ii) Weathered material moves downslope under the influence of *altitude* / *gravity*.
- (iii) The loose weathered material that moves downslope as a result of mass movement is known as *moraine* / *regolith*.

5. EARTHQUAKES

Deadliest Earthquakes by Year, 2009 - 2012

Year	Magnitude	Fatalities	Region
2012	6.7	113	Philippines
2011	9.0	20,896	Japan
2010	7.0	316,000	Haiti
2009	7.5	1,117	Southern Sumatra

Amended from www.usgs.gov

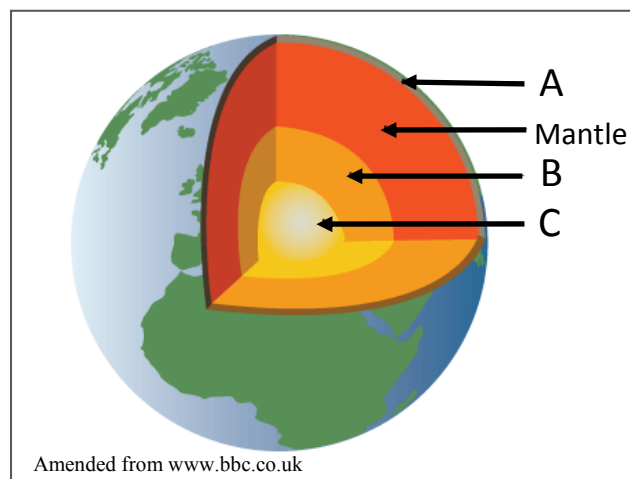
Examine the table above and answer each of the following questions.

(i) Where was the earthquake with the greatest number of fatalities? _____

(ii) In which year was the strongest earthquake? _____

(iii) Name the scale used to measure the force/magnitude of an earthquake.

6. STRUCTURE OF THE EARTH



The diagram above shows the layers of the earth.

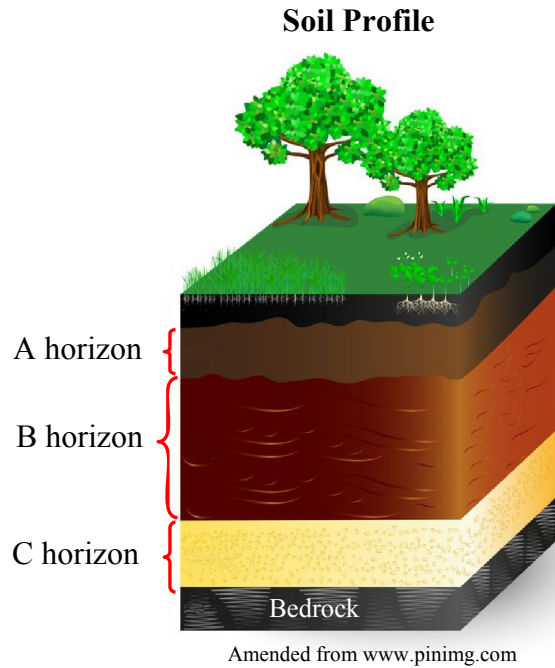
Name the layers of the earth labelled **A**, **B** and **C**.

A. _____

B. _____

C. _____

7. SOILS



Examine the soil profile above.

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

1. This is a brown earth soil profile.
2. The C horizon is rich in nutrients.
3. The A horizon is very fertile.
4. Plant litter is commonly found above the A horizon.
5. The soil in this soil profile is heavily leached.

1, 2, 5 ☐

1, 3, 4 ☐

1, 3, 5 ☐

1, 4, 5 ☐

ANSWER EITHER 8A OR 8B**8A. GLACIATION**

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	Hanging Valley
B	Cirque / Corrie
C	Fiord
D	Erratic

Column Y	
1	A drowned glaciated valley.
2	A tributary valley above the main glaciated valley.
3	A boulder deposited by a glacier.
4	Where glaciers are formed.

X	Y
A	2
B	
C	
D	

OR

8B. COASTS

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	Marram grass
B	Storm beach
C	Hydraulic action
D	Longshore drift

Column Y	
1	The force of the waves crashing against the coast.
2	The process of transporting materials along the shore.
3	Where large rocks are found above the high tide level.
4	Binds sand together on sand dunes.

X	Y
A	4
B	
C	
D	

ANSWER EITHER 9A OR 9B

9A. SECONDARY ECONOMIC ACTIVITIES

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

Teacher	Farmer	Factory worker
Brewer	Forestry worker	Hairdresser
Miner	Baker	Dentist

OR

9B. SETTLEMENT



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

A. _____

B. _____

C. _____

ANSWER EITHER 10A OR 10B

10A. WEATHER INSTRUMENT

The weather instrument shown opposite is a(n):

Hygrometer

☐

Anemometer

☐

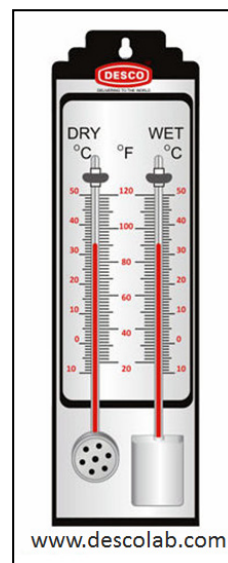
Campbell-Stokes Recorder

☐

Barometer

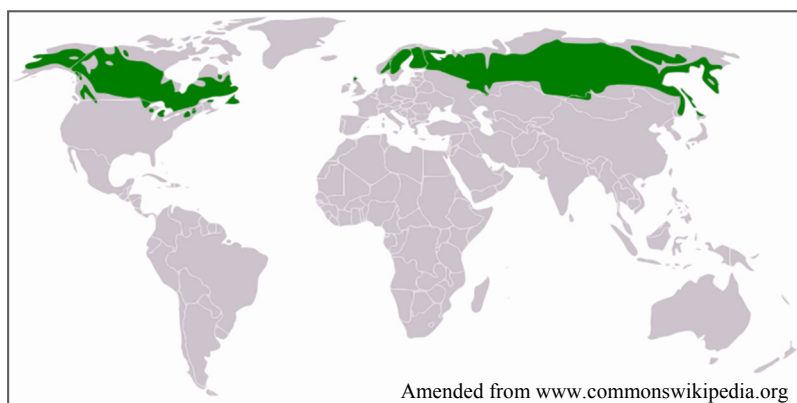
☐

Tick (✓) the correct box.



OR

10B. CLIMATE



Examine the map above.

The climate experienced in the area shaded green on the map above is:

Mediterranean

☐

Savanna

☐

Boreal

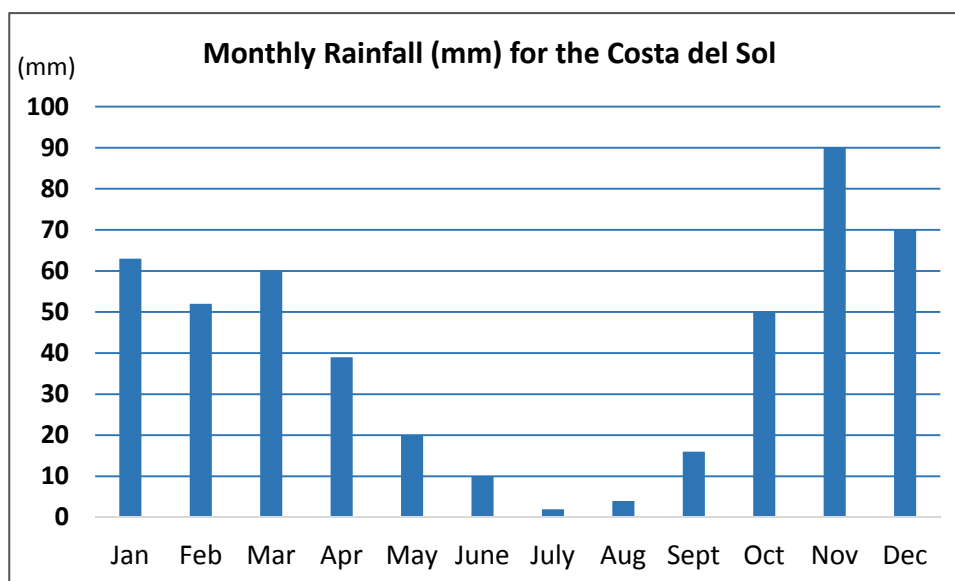
☐

Warm temperate oceanic

☐

Tick (✓) the correct box.

11. WEATHER STATISTICS



Examine the graph above showing monthly rainfall for the Costa del Sol and answer each of the following questions.

- (i) Which month had the lowest level of rainfall?

- (ii) What was the monthly rainfall (mm) in May?

- (iii) Calculate the average rainfall (mm) for the three months of October, November and December.

12. POPULATION DENSITY



Examine the map above.

Circle the correct answer in each of the following statements.

- (i) The country labelled **X** on the map is *Ethiopia / Mali*.
- (ii) Country **X** has a *low / high* population density.
- (iii) The population density in country **X** is influenced by the *Kalahari Desert / Sahara Desert*.

13. DECIDUOUS WOODLAND



Circle the correct answer in each of the following statements.

- (i) Deciduous trees have adapted to their environment by *losing / keeping* their leaves in winter.
- (ii) Deciduous trees are normally found in *upland / lowland* regions in Ireland.
- (iii) An example of a deciduous tree in Ireland is *oak / spruce*.

14. INDUSTRY

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

1. The location of industry is influenced by factors such as markets, labour and transport facilities.
2. A footloose industry is tied to a specific location.
3. The computer industry is an example of a light industry.
4. Geographical inertia refers to the capital invested in an industry.
5. The British iron and steel industry changed its location over time from coalfields to coasts.

1, 2, 3 ☐

1, 3, 4 ☐

1, 3, 5 ☐

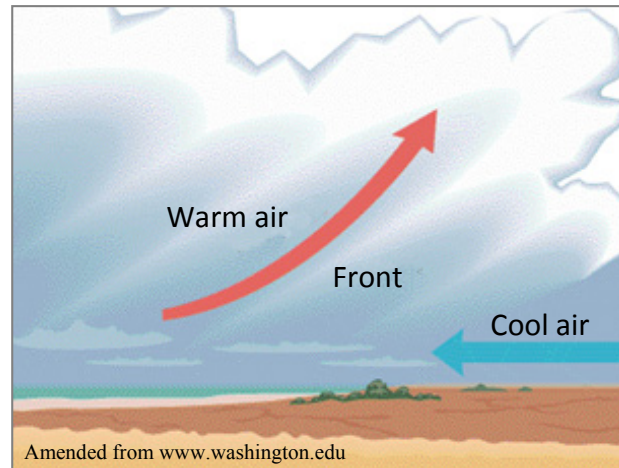
1, 4, 5 ☐

15. URBANISATION

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	Primate city	1	A commuter town from where people travel to work.	A	
B	Dormitory town	2	A squatter development in cities in the developing world.	B	
C	Shanty town	3	Old buildings replaced by modern structures.	C	
D	Urban renewal	4	A city that has twice the population of the next largest city.	D	3

16. RAINFALL



The type of rainfall associated with the diagram above is:

Relief rainfall ☐

Convectional rainfall ☐

Cyclonic or frontal rainfall ☐

Tick (✓) the correct box

17. ORDNANCE SURVEY MAP

Examine the Ordnance Survey map supplied with this paper.

The straight line distance between the spot height 500 metres at L 929 805 to the caravan site at L 986 852 is:

10.0 km ☐

6.5 km ☐

7.4 km ☐

8.5 km ☐

Tick (✓) the correct box.

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	M 030 869
B	M 033 804
C	L 982 812
D	L 971 856

Column Y	
1	Coniferous Plantation
2	Golf Course
3	Doo Lough
4	Post Office

X	Y
A	
B	4
C	
D	

19. ORDNANCE SURVEY MAP

Examine the Ordnance Survey map supplied with this paper.

The altitude at L 950 788 is:

110 m ☐

120 m ☐

130 m ☐

140 m ☐

Tick (✓) the correct box.

20. AERIAL PHOTOGRAPH

Examine the aerial photograph of Westport supplied with this paper.

Circle the correct answer in each of the following statements.

- (i) There is a church with a spire in the *left background* / *centre foreground*.
- (ii) There is a large car park in the *centre background* / *left background*.
- (iii) This is a(n) *oblique* / *vertical* aerial photograph.

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Coimisiún na Scrúduithe Stáit State Examinations Commission

JUNIOR CERTIFICATE EXAMINATION 2016

GEOGRAPHY – HIGHER LEVEL

SECTION 2 (90 marks)

FRIDAY 10 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 AND ECONOMIC ACTIVITY

A. Limestone

- (i) Explain how limestone rock is formed.
- (ii) Describe **two** ways rocks may be of **economic** use to people.

(10)

B. Karst Landscape

Explain, with the aid of a labelled diagram, how any **one** underground feature in a Karst landscape was formed.

(8)

C. Economic Activity - Exploitation of Peat

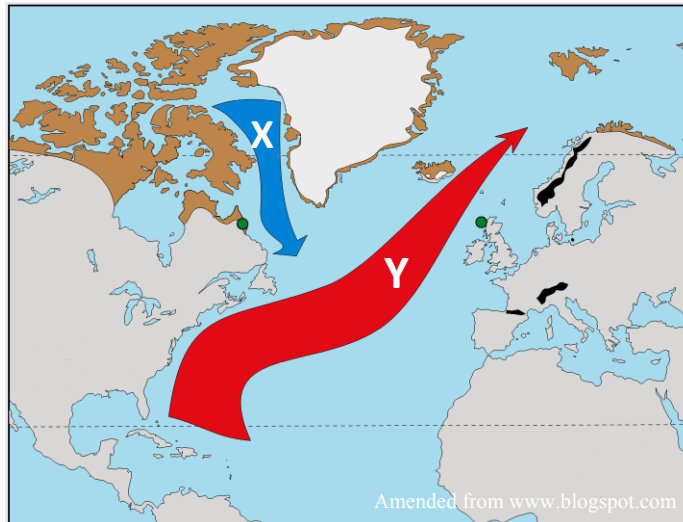


- (i) Describe **two** different ways in which technology has aided the exploitation of peat.
- (ii) Explain **two** reasons why there is limited commercial peat production in blanket bogs.

(12)

Question 2. OCEAN CURRENTS, IRRIGATION AND DESERTIFICATION

A. Ocean Currents



- (i) Name the ocean current labelled **X** and the ocean current labelled **Y**.
- (ii) Explain **two** effects that the ocean current **Y** has on the climate of Ireland.

(10)

B. Irrigation

- (i) State what is meant by the term *irrigation*.
- (ii) Name any **one** irrigation scheme that you have studied.
- (iii) Explain **two** advantages of this irrigation scheme.

(10)

C. Desertification

- (i) Explain **one** natural cause and explain **one** human cause of desertification.
- (ii) Describe **two** effects of desertification.

(10)

Question 3. GEOGRAPHICAL MIX

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

3A. New Settlement Patterns



- (i) Name **one** country where polders are found.
- (ii) Explain **one** reason why new settlements were created on polders.
- (iii) Describe **two** characteristics of settlement on polders.

(10)

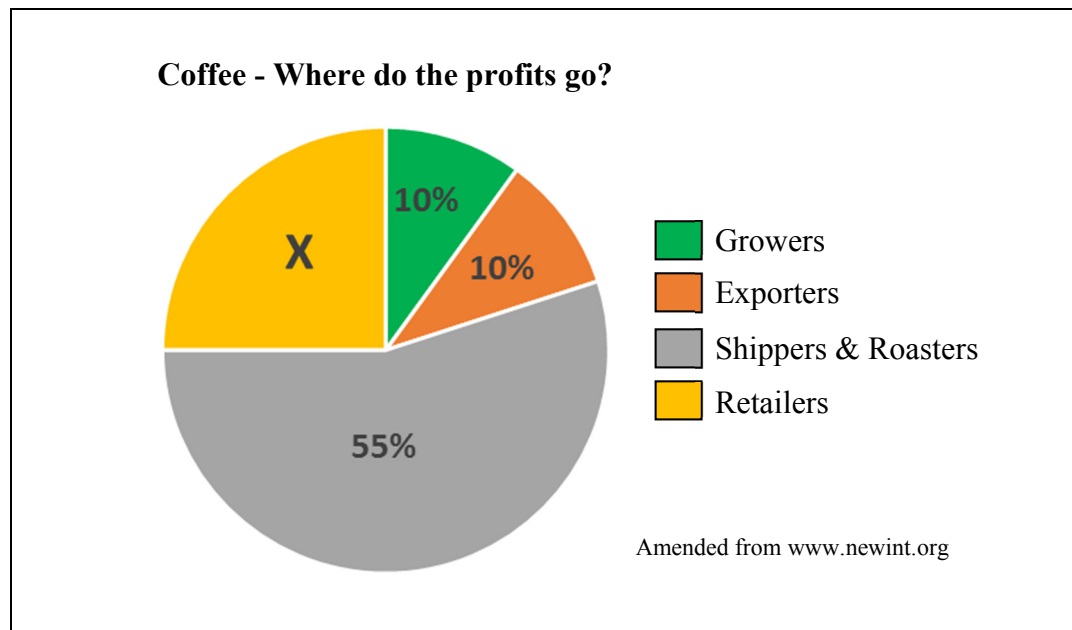
3B. Population Change

Explain how **two** of the following factors have influenced the rate of population change in any country that you have studied:

- Food supplies
- Health
- War
- Education
- Technological developments
- Place of women in society.

(10)

3C. Economic Inequality - Trade



Examine the pie chart above showing how profits from coffee production are distributed and answer each of the following questions.

- (i) What percentage of the profits from coffee production are received by shippers and roasters?
- (ii) Calculate **X**, the percentage of profits from coffee production received by retailers.
- (iii) Explain **two** negative impacts of unfair trading on the economies of the developing world.
- (iv) Name an example of a country in the developing world affected by unfair trading.

(10)

3D. Migration

- (i) Name **one** example of individual migration that you have studied.
- (ii) Explain **two** push factors associated with this example of individual migration.
- (iii) Describe **one** effect of this individual migration on the area from which people have migrated.

(10)

Question 4. URBANISATION

A. Urban Land-Use

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

Describe and explain **three** different urban land-uses evident on the aerial photograph. Use evidence from the aerial photograph to support your answer.

(10)

B. Urban Problems



(i) State what is meant by each of the following terms:

- *Urban decline*
- *Urban sprawl.*

(ii) Describe **two** problems associated with urban sprawl.

(10)

C. Urbanisation in the Developing World

(i) Name **one** city in the developing world with a high population density, that you have studied.

(ii) Explain **two** problems resulting from the high population density in the developing world city named in part (i) above.

(10)

Question 5. ORDNANCE SURVEY MAP AND AERIAL PHOTOGRAPH

A. 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:

- Westport Bay
- The built up area of Westport
- The N59 road
- The Owenwee River.

(10)

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

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

(12)

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

Describe **two** ways that the local authority manages traffic in the town, using evidence from the aerial photograph to support your answer.

(8)

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