

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.
Be sure to return this folder with your answer book.
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1. ROCKS



Circle the correct answer in each of the following statements.

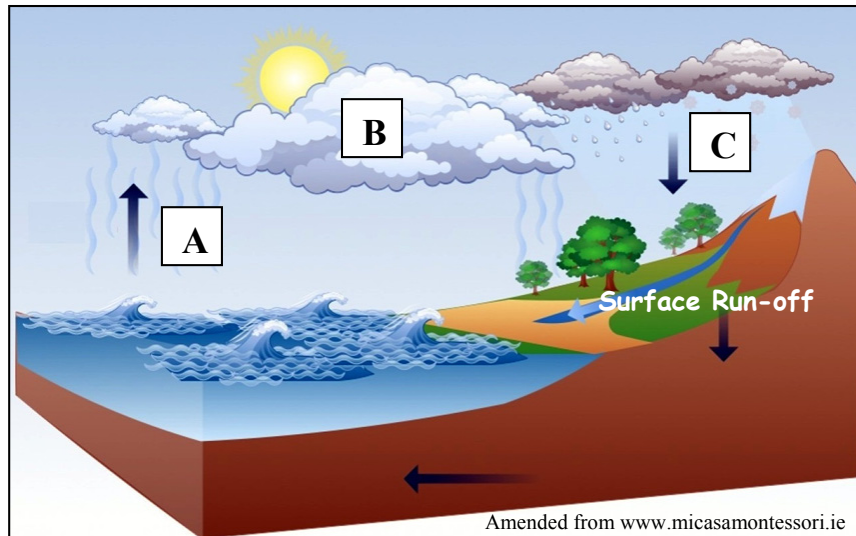
- (i) The rock type shown above is *marble* / *sandstone*.
- (ii) The rock type shown above is a *sedimentary rock* / *metamorphic rock*.
- (iii) It is found in *the Giant's Causeway* / *County Cork*.

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

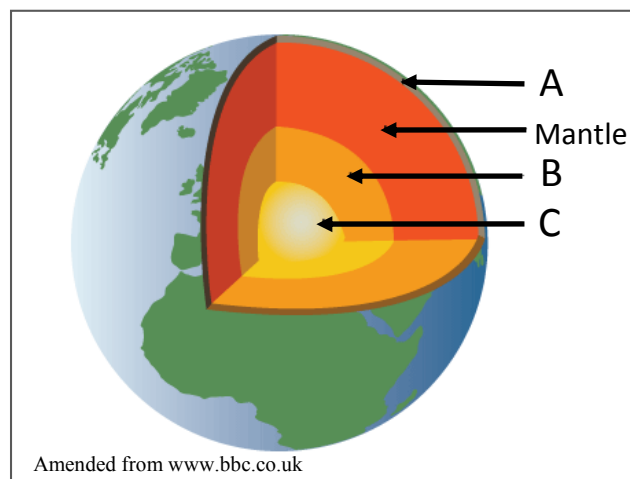
Examine the table above and answer each of the following questions.

(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.

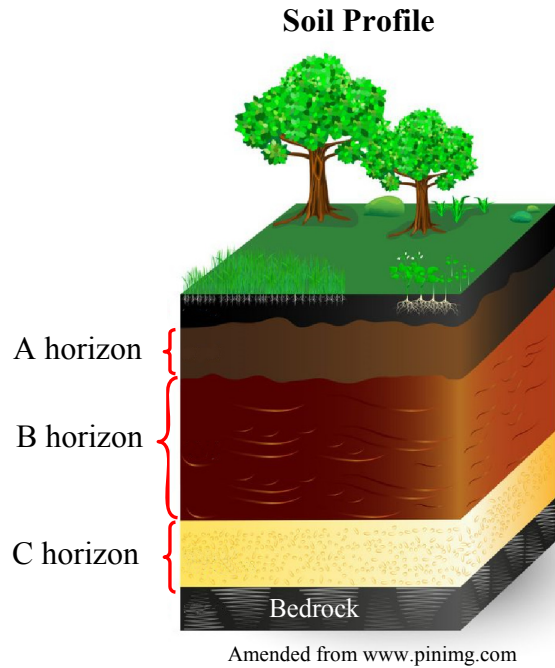
Name the layers of the earth labelled **A**, **B** and **C**.

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		Column Y		X	Y
A	Hanging Valley	1	A drowned glaciased valley.	A	2
B	Cirque / Corrie	2	A tributary valley above the main glaciased valley.	B	
C	Fiord	3	A boulder deposited by a glacier.	C	
D	Erratic	4	Where glaciers are formed.	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		Column Y		X	Y
A	Marram grass	1	The force of the waves crashing against the coast.	A	4
B	Storm beach	2	The process of transporting materials along the shore.	B	
C	Hydraulic action	3	Where large rocks are found above the high tide level.	C	
D	Longshore drift	4	Binds sand together on sand dunes.	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

☐

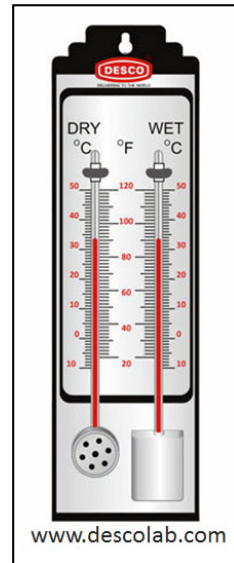
Campbell-Stokes Recorder

☐

Barometer

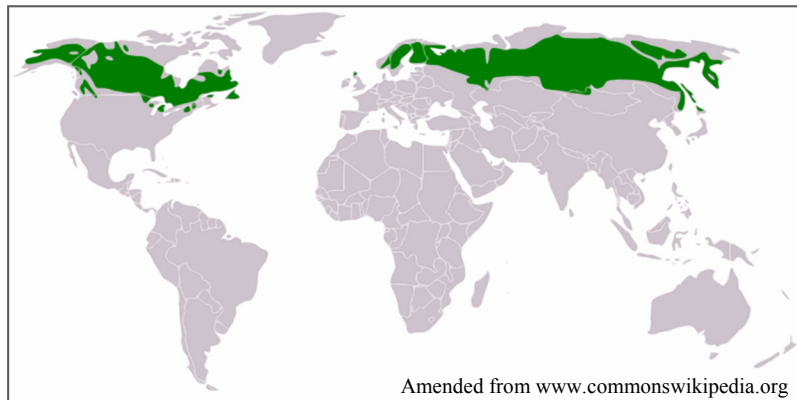
☐

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

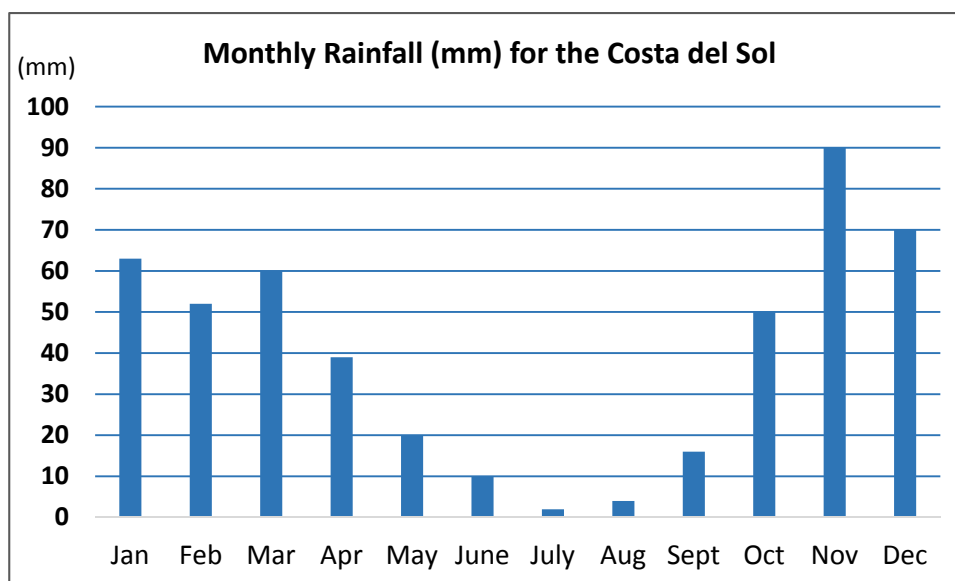
☐

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 ☐

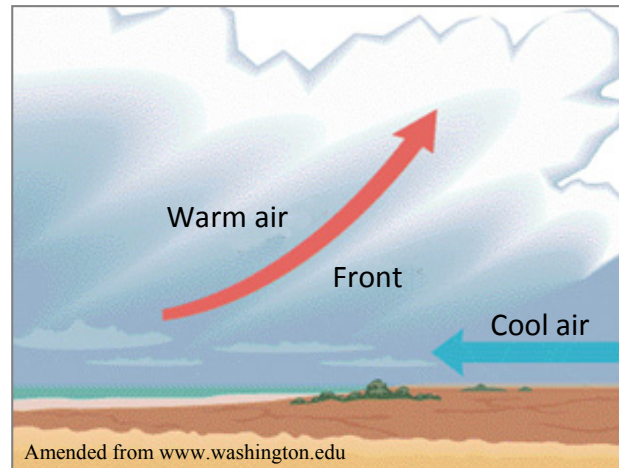
1, 4, 5 ☐

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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